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Section 2
Indexes

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PATENT
ABSTRACTS
BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JULY 1986

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04) SEC 1	N69-20701 – N73-33931
NASA SP-7039(12) SEC 1	N74-10001 – N77-34042
NASA SP-7039(13) SEC 1	N78-10001 – N78-22018
NASA SP-7039(14) SEC 1	N78-22019 – N78-34034
NASA SP-7039(15) SEC 1	N79-10001 – N79-21993
NASA SP-7039(16) SEC 1	N79-21994 – N79-34158
NASA SP-7039(17) SEC 1	N80-10001 – N80-22254
NASA SP-7039(18) SEC 1	N80-22255 – N80-34339
NASA SP-7039(19) SEC 1	N81-10001 – N81-21997
NASA SP-7039(20) SEC 1	N81-21998 – N81-34139
NASA SP-7039(21) SEC 1	N82-10001 – N82-22140
NASA SP-7039(22) SEC 1	N82-22141 – N82-34341
NASA SP-7039(23) SEC 1	N83-10001 – N83-23266
NASA SP-7039(24) SEC 1	N83-23267 – N83-37053
NASA SP-7039(25) SEC 1	N84-10001 – N84-22526
NASA SP-7039(26) SEC 1	N84-22527 – N84-35284
NASA SP-7039(27) SEC 1	N85-10001 – N85-22341
NASA SP-7039(28) SEC 1	N85-22342 – N85-36162
NASA SP-7039(29) SEC 1	N86-10001 – N86-22536

NASA

**PATENT
ABSTRACTS
BIBLIOGRAPHY**

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and June 1986. This issue supersedes all previous Index Sections.



This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A21.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 115 citations published in this issue of the Abstract Section cover the period January 1986 through June 1986. The Index Section references over 4400 citations covering the period May 1969 through June 1986.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

ON MICROFICHE

NASA SPONSORED

ACCESSION NUMBER → N86-20470*# National Aeronautics and Space Administration.
Langley Research Center, Hampton, Va.

CORPORATE SOURCE

TITLE → TELESCOPING SPACE STATION MODULES Patent
Application

INVENTORS → R. D. WITCOFSKI, inventor (to NASA) 31 Jul. 1985 15 p

NASA CASE NUMBER → (NASA-CASE-LAR-13330-1; NAS 1.71:LAR-13330-1;

PRICE CODE

US PATENT APPLICATIONS → US-PATENT-APPL-SN-761233) Avail: NTIS HC A02/MF A01

AVAILABILITY SOURCE

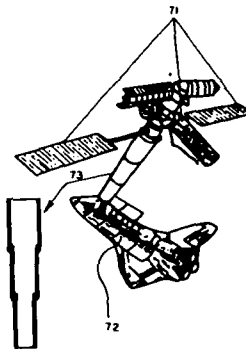
SERIAL NUMBER → CSCL 22B

COSATI CODE

A space station module consisting of a cylindrical can within a can is presented. The outer can, which has one open end, encloses the inner can. The inner can has one tapered end with a hatch and one untapered end with a hatch. The outer can has one tapered end with a hatch. The overall length of the outer can is 25 ft, and its outer diameter is 14 ft. Two such assemblies easily fit end to end in the Shuttle Orbiter payload bay. With a shuttle payload capability of 65,000 pounds and an approximate weight of each twin can assembly of 16,000 pounds, 33,000 pounds of payload are available for instrumenting the cans. Only the inner can can be instrumented prior to launch. Once in orbit, the module is expanded to provide twice the usable space, approximately 48 ft total length.

ABSTRACT

NASA



KEY ILLUSTRATION

Subject Categories

(1969 – 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Subject Categories (1974 –)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and on-board auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tube facilities; and engine test blocks.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbit and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; manned orbital laboratories; reusable vehicles; and space stations.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and rescue techniques.

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation*.

17 SPACECRAFT COMMUNICATION, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control; and attitude control.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; and propellants and fuels.

23 CHEMISTRY AND MATERIALS (GENERAL)

Includes biochemistry and organic chemistry.

24 COMPOSITE MATERIALS

Includes laminates.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters, and oxidizers; storage and handling; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

ENGINEERING

Includes engineering (general); communications; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; and cryogenics.

32 COMMUNICATIONS

Includes land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer; and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (non-power); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells and batteries; global sources of energy; fossil fuels; geophysical conversion; hydroelectric power; and wind power.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *85 Urban Technology and Transportation*.

45 ENVIRONMENT POLLUTION

Includes air, noise, thermal and water pollution; environment monitoring; and contamination control.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic and physical oceanography; and marine resources.

LIFE SCIENCES

Includes sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and planetary biology.

51 LIFE SCIENCES (GENERAL)

Includes genetics.

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and weightlessness.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54. MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

55 PLANETARY BIOLOGY

Includes exobiology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes computer graphics and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms.

62 COMPUTER SYSTEMS

Includes computer networks.

63 CYBERNETICS

Includes feedback and control theory.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For geophysics see *46 Geophysics*. For astrophysics see *90 Astrophysics*. For solar physics see *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law and political science; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information storage and retrieval technology; micrography; and library science.

For computer documentation see 61 *Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW AND POLITICAL SCIENCE

Includes space law; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see 03 *Air Transportation and Safety*, 16 *Space Transportation*, and 44 *Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio and gamma-ray astronomy; celestial mechanics; and astrometry.

90 ASTROPHYSICS

Includes cosmology; and interstellar and interplanetary gases and dust.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design see 18 *Spacecraft Design, Testing and Performance*. For space stations see 15 *Launch Vehicles and Space Vehicles*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see 52 *Aerospace Medicine*. For theory see 73 *Nuclear and High-Energy Physics*.

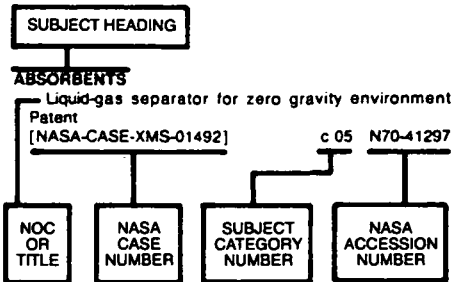
GENERAL

99 GENERAL

Section 2 • Indexes

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Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or Notation of Content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

ABILITIES

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

ABLATIVE MATERIALS

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389
ABORT APPARATUS
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
ABRASION
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
ABRASION RESISTANCE
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
ABSORBENTS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
ABSORBERS (EQUIPMENT)
Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
ABSORBERS (MATERIALS)
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

ABSORPTION

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

ABSORPTION COOLING

Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084

ABSORPTION CROSS SECTIONS

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ABSORPTION SPECTRA

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777

ABSORPTION SPECTROSCOPY

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

ABSORPTIVITY

Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425

AC GENERATORS

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

ACCELERATION

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

ACCELERATION (PHYSICS)

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-XLA-10550-1] c 09 N74-30597
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

ACCELERATION PROTECTION

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

ACCELERATION STRESSES (PHYSIOLOGY)

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

ACCELERATION TOLERANCE

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

ACCELERATORS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

ACCELEROMETERS

- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
- ACCEPTABILITY**
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- ACCEPTOR MATERIALS**
[Li-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- ACCIDENT PREVENTION**
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- ACCOMMODATION**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- ACCUMULATORS**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- ACETALS**
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- ACETATES**
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
- ACETYL COMPOUNDS**
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- ACETYLENE**
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685
- ACOUSTIC ATTENUATION**
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086
- ACOUSTIC DUCTS**
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- ACOUSTIC EXCITATION**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

ACOUSTIC IMPEDANCE

- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- ACOUSTIC LEVITATION**
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Single mode levitation and translation
[NASA-CASE-NPO-16875-1-CU] c 71 N86-20087
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N36-20752
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- ACOUSTIC MEASUREMENT**
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- ACOUSTIC PROPAGATION**
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- ACOUSTIC PROPERTIES**
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307
- ACOUSTICAL HOLOGRAPHY**
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- ACOUSTICS**
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Acoustic particle separation
[NASA-CASE-NPO-155559-1] c 71 N85-30765
- ACUSTO-OPTICS**
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- ACRYLATES**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- ACRYLONITRILES**
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- ACTIVATED CARBON**
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- ACTIVATION ENERGY**
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- ACTUATION**
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- ACTUATOR DISKS**
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- ACTUATORS**
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Dual output variable pitch turbopfan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612

ADAPTATION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

ADAPTERS
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860

ADAPTIVE CONTROL
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

ADAPTIVE FILTERS
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

ADDITIVES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

ADDRESSING
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895

Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564

ADHESIVES
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263

Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517

Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AEROBRAKING
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471

AERODYNAMIC BALANCE

Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

AERODYNAMIC HEATING
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC LOADS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914

Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERODYNAMIC STALLING
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

AEROELASTICITY
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

AEROSPACE ENGINEERING

Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01785] c 18 N71-10772

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385

Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

AEROSPACE MEDICINE

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE VEHICLES

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010

Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035

Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

AEROSPACEPLANES

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

AFTERBODIES

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

AFTERBURNING

Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

AGGLOMERATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

AGING (MATERIALS)

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

AGRICULTURE

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

AILERONS

Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

AIR

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710

AIR BREATHING ENGINES

Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

AIR CONDITIONING

Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

AIR CONDITIONING EQUIPMENT

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

AIR COOLING

Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264

AIR FILTERS

Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

AIR FLOW

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456

Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

AIR INTAKES

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

AIR LOCKS

Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968

Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095

An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

AIR NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

AIR POLLUTION

Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

AIR PURIFICATION

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

AIR SAMPLING

Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

AIR START

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

AIR TRAFFIC CONTROL

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

AIR TRANSPORTATION

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

AIRBORNE EQUIPMENT

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

AIRBORNE/SPACEBORNE COMPUTERS

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

AIRCRAFT

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980

AIRCRAFT CONSTRUCTION MATERIALS

- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

AIRCRAFT CONTROL

- Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- Altitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397

AIRCRAFT DESIGN

- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

AIRCRAFT DETECTION

- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES

- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
- AIRCRAFT EQUIPMENT**
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

AIRCRAFT FUEL SYSTEMS

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE

- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS

- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

AIRCRAFT INSTRUMENTS

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT LANDING

- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

AIRCRAFT LAUNCHING DEVICES

- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS

- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086

AIRCRAFT PERFORMANCE

- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

AIRCRAFT PILOTS

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT SAFETY

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

AIRCRAFT SPIN

- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

AIRCRAFT STABILITY

- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

AIRCRAFT STRUCTURES

- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- The 1-(diorganooxophosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

AIRCRAFT TIRES

- Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES

- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES

- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- AIRFRAMES**
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED

- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALCOHOLS

- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES

- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azone polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALIGNMENT

- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Method of constructing dish ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- ALIPHATIC COMPOUNDS**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- ALKALI HALIDES**
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES

- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES

- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS

- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- ALKYNES**
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- ALLOYS**
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

ALPHA PARTICLES

- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS

- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- ALTERNATING CURRENT**
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- ALTIMETERS**
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- ALTITUDE**
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- ALTITUDE CONTROL**
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- ALUMINUM**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- ALUMINUM ALLOYS**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

ALUMINUM COATINGS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

Synthesis of dowsnites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-16934-3] c 24 N84-16262

ALUMINUM SILICATES

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMIDES

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11080-1] c 27 N79-22300

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

AMINO ACIDS

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

AMPLIFICATION

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596

AMPLIFIER DESIGN

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

AMPLIFIERS

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve, utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N78-31512

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

AMPLITUDE DISTRIBUTION ANALYSIS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

AMPLITUDES

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

AMPOULES

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

ANALGESIA

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

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[NASA-CASE-XMF-01097] c 10 N71-16058

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

ANALOG COMPUTERS

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

ANALOG DATA

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899

Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200

Analog-to-digital converter
[NASA-CASE-MS-C-13110-1] c 08 N72-22163

Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

- Analog to digital converter
 [NASA-CASE-NPO-13385-1] c 33 N76-18345
 Analog to digital converter for two-dimensional radiant energy array computers
 [NASA-CASE-GSC-11839-3] c 60 N77-32731
 Electrochemical detection device --- for use in microbiology
 [NASA-CASE-LAR-11922-1] c 25 N79-24073
 Apparatus and method for tracking the fundamental frequency of an analog input signal
 [NASA-CASE-ARC-11367-1] c 33 N83-21238
 Heads up display
 [NASA-CASE-LAR-12630-1] c 06 N84-27733
 Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
 [NASA-CASE-MFS-25319-1] c 60 N85-33701
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 Fluid phase analyzer Patent
 [NASA-CASE-NPO-10691] c 14 N71-26199
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 [NASA-CASE-XNP-09451] c 06 N71-26754
 Micrometeoroid analyzer
 [NASA-CASE-ARC-10443-1] c 14 N73-20477
 NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
 [NASA-CASE-ARC-10802-1] c 35 N75-30502
 Cosmic dust analyzer
 [NASA-CASE-MSC-13802-2] c 35 N76-15431
 Optically selective, acoustically resonant gas detecting transducer
 [NASA-CASE-ARC-10639-1] c 35 N78-13400
- ANEMOMETERS**
 Anemometer with braking mechanism Patent
 [NASA-CASE-XMF-05224] c 14 N71-23726
 Maxometers (peak wind speed anemometers)
 [NASA-CASE-MFS-20916] c 14 N73-25460
 Radionuclide counting technique for measuring wind velocity and direction
 [NASA-CASE-LAR-12971-1] c 47 N84-28292
- ANGIOGRAPHY**
 Contour detector and data acquisition system for the left ventricular outline
 [NASA-CASE-ARC-10985-1] c 52 N79-10724
- ANGLE OF ATTACK**
 Angle detector
 [NASA-CASE-ARC-11036-1] c 35 N78-32395
 Aerodynamic side-force alleviator means
 [NASA-CASE-LAR-12326-1] c 02 N81-14968
- ANGLES (GEOMETRY)**
 Internal flare angle gauge Patent
 [NASA-CASE-XMF-04415] c 14 N71-24693
 Method for generating ultra-precise angles Patent
 [NASA-CASE-XGS-04173] c 19 N71-26674
 Rotating raster generator
 [NASA-CASE-FRC-10071-1] c 32 N74-20813
 Angular measurement system
 [NASA-CASE-MFS-25825-1] c 35 N85-20298
- ANGULAR ACCELERATION**
 Angular accelerometer Patent
 [NASA-CASE-XMS-05936] c 14 N70-41682
- ANGULAR CORRELATION**
 Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
 [NASA-CASE-GSC-11444-1] c 14 N73-28490
- ANGULAR DISTRIBUTION**
 Noncontacting method for measuring angular deflection
 [NASA-CASE-LAR-12178-1] c 74 N80-21138
- ANGULAR MOMENTUM**
 Stretch de-spin mechanism Patent
 [NASA-CASE-XGS-00619] c 30 N70-40016
 Rim inertial measuring system
 [NASA-CASE-LAR-12052-1] c 18 N81-29152
 Fluidic momentum controller
 [NASA-CASE-MSC-20906-1] c 18 N86-19344
- ANGULAR RESOLUTION**
 Angular measurement system Patent
 [NASA-CASE-XMF-00447] c 14 N70-33179
- ANGULAR VELOCITY**
 Angular position and velocity sensing apparatus Patent
 [NASA-CASE-XGS-05680] c 14 N71-17585
 Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
 [NASA-CASE-NPO-14170-1] c 37 N81-15364
 Interferometric angle monitor
 [NASA-CASE-GSC-12614-1] c 74 N83-32577
 Fluidic angular velocity sensor
 [NASA-CASE-NPO-16479-1-CU] c 35 N85-29219
- ANHYDRIDES**
 Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
 [NASA-CASE-MFS-22356-1] c 23 N75-30256
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
 [NASA-CASE-ARC-11107-1] c 25 N80-16116
- Prepolymer dianhydrides
 [NASA-CASE-NPO-13899-1] c 27 N80-32515
 The 1 - (dialkoxyposphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
 [NASA-CASE-ARC-11425-1] c 23 N83-28076
 Maleimido substituted aromatic cyclotriphosphazenes
 [NASA-CASE-ARC-11428-1] c 23 N86-19376
 Copolyimides with a combination of flexibilizing groups
 [NASA-CASE-LAR-13354-1] c 27 N86-20566
- ANILINE**
 Process for preparation of dianilinosilanes Patent
 [NASA-CASE-XMF-06409] c 06 N71-23230
- ANIMALS**
 Automatic real-time pair-feeding system for animals
 [NASA-CASE-ARC-10302-1] c 51 N74-15778
 Tread drum for animals --- having an electrical shock station
 [NASA-CASE-ARC-10917-1] c 51 N78-27733
- ANISOTROPIC MEDIA**
 Hybrid composite laminate structures
 [NASA-CASE-LEW-12118-1] c 24 N77-27188
- ANNEALING**
 Recovery of radiation damaged solar cells through thermal annealing
 [NASA-CASE-XGS-04047-2] c 03 N72-11062
 CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
 [NASA-CASE-LAR-12304-1] c 35 N80-20559
- ANNULAR NOZZLES**
 Rocket thrust chamber Patent
 [NASA-CASE-XLE-00145] c 28 N70-36806
 Annular slit colloid thruster Patent
 [NASA-CASE-GSC-10709-1] c 28 N71-25213
- ANNULAR PLATES**
 Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939
 Multiple plate hydrostatic viscous damper
 [NASA-CASE-LEW-12445-1] c 37 N81-22360
- ANNULI**
 Shaft transducer having dc output proportional to angular velocity
 [NASA-CASE-NPO-15706-1] c 35 N84-28017
- ANODES**
 Heat activated cell with alkali anode and alkali salt electrolyte Patent
 [NASA-CASE-LEW-11358] c 03 N71-26084
 Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
 [NASA-CASE-NPO-11806-1] c 44 N74-19693
 Resistive anode image converter
 [NASA-CASE-HQN-10876-1] c 33 N76-27473
 Rechargeable battery which combats shape change of the zinc anode
 [NASA-CASE-HQN-10862-1] c 44 N76-29699
 Arc control in compact arc lamps
 [NASA-CASE-NPO-10870-1] c 33 N77-22386
 Multiple anode arc lamp system
 [NASA-CASE-NPO-10857-1] c 33 N80-14330
 Ion sputter textured graphite --- anode collector plates in electron tube devices
 [NASA-CASE-LEW-12919-1] c 24 N83-10117
 Method and apparatus for rebalancing a REDOX flow cell system
 [NASA-CASE-LEW-14127-1] c 33 N86-20680
- ANODIC COATINGS**
 Temperature reducing coating for metals subject to flame exposure Patent
 [NASA-CASE-XLE-00035] c 33 N71-29151
 Anode for ion thruster
 [NASA-CASE-LEW-12048-1] c 20 N77-20162
 Variable anodic thermal control coating
 [NASA-CASE-LAR-12719-1] c 44 N83-34449
- ANOMALIES**
 Aircraft liftmeter
 [NASA-CASE-LAR-12518-1] c 06 N84-32383
- ANTENNA ARRAYS**
 Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
 [NASA-CASE-XLA-00414] c 07 N70-38200
 Multiple input radio receiver Patent
 [NASA-CASE-XLA-00901] c 07 N71-10775
 Horn feed having overlapping apertures Patent
 [NASA-CASE-GSC-10452] c 07 N71-12396
 Tracking antenna system Patent
 [NASA-CASE-GSC-10553-1] c 07 N71-19854
 Radar antenna system for acquisition and tracking Patent
 [NASA-CASE-XMS-09610] c 07 N71-24625
 Antenna array phase quadrature tracking system Patent
 [NASA-CASE-MSC-12205-1] c 07 N71-27056
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
 [NASA-CASE-GSC-10220-1] c 07 N71-27233
 Triaxial antenna Patent
 [NASA-CASE-XGS-02290] c 07 N71-28809
 Virtual wall slot circularly polarized planar array antenna
 [NASA-CASE-NPO-10301] c 07 N72-11148
 Stacked array of omnidirectional antennas
 [NASA-CASE-LAR-10545-1] c 09 N72-21244
 Circularly polarized antenna
 [NASA-CASE-ERC-10214] c 09 N72-31235
 Phase control circuits using frequency multiplications for phased array antennas
 [NASA-CASE-ERC-10285] c 10 N73-16206
 Plural beam antenna
 [NASA-CASE-GSC-11013-1] c 09 N73-19234
 Amplitude steered array
 [NASA-CASE-GSC-11446-1] c 33 N74-20860
 Position determination systems --- using orbital antenna scan of celestial bodies
 [NASA-CASE-MSC-12583-1] c 17 N76-21250
 Thin conformal antenna array for microwave power conversions
 [NASA-CASE-NPO-13886-1] c 32 N78-24391
 RF beam center location method and apparatus for power transmission system
 [NASA-CASE-NPO-13821-1] c 44 N78-28594
 Phased array antenna control
 [NASA-CASE-MSC-14939-1] c 32 N79-11264
 Phase conjugation method and apparatus for an active retrodirective antenna array
 [NASA-CASE-NPO-13641-1] c 32 N79-24210
 Scannable beam forming interferometer antenna array system
 [NASA-CASE-GSC-12365-1] c 32 N80-28578
 Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
 [NASA-CASE-NPO-14536-1] c 32 N81-14185
 Coaxial phased array antenna
 [NASA-CASE-MSC-16800-1] c 32 N81-14187
 Baseband signal combiner for large aperture antenna array
 [NASA-CASE-NPO-14641-1] c 32 N81-29308
 Cavity-backed, micro-strip dipole antenna array
 [NASA-CASE-MSC-18606-1] c 32 N82-11336
 Spiral slotted phased antenna array
 [NASA-CASE-MSC-18532-1] c 32 N82-27558
 Method and apparatus for self-calibration and phasing of array antenna
 [NASA-CASE-NPO-15920-1] c 33 N85-21493
- ANTENNA COMPONENTS**
 Digital servo controller --- for rotating antenna shaft
 [NASA-CASE-KSC-10769-1] c 33 N74-29556
 Faraday rotation measurement method and apparatus
 [NASA-CASE-NPO-14839-1] c 35 N82-15381
- ANTENNA COUPLERS**
 Dual band combiner for horn antenna
 [NASA-CASE-NPO-14519-1] c 32 N80-23524
- ANTENNA DESIGN**
 Low noise single aperture multimode monopulse antenna feed system Patent
 [NASA-CASE-XNP-01735] c 07 N71-22750
 Nose cone mounted heat resistant antenna Patent
 [NASA-CASE-XMS-04312] c 07 N71-22984
 Antenna array phase quadrature tracking system Patent
 [NASA-CASE-MSC-12205-1] c 07 N71-27056
 Unfurlable structure including coiled strips thrust launched upon tension release Patent
 [NASA-CASE-HQN-00937] c 07 N71-28979
 Antenna design for surface wave suppression Patent
 [NASA-CASE-XLA-10772] c 07 N71-28980
 Target acquisition antenna
 [NASA-CASE-GSC-10064-1] c 10 N72-22235
 Collapsible high gain antenna
 [NASA-CASE-KSC-10392] c 07 N73-26117
 Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
 [NASA-CASE-GSC-11760-1] c 33 N75-19516
 Horn antenna having V-shaped corrugated slots
 [NASA-CASE-LAR-11112-1] c 32 N76-15330
 Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
 [NASA-CASE-NPO-13568-1] c 32 N76-21365
 Furlable antenna --- antenna design
 [NASA-CASE-NPO-13553-1] c 33 N76-32457
 Collapsible corrugated horn antenna
 [NASA-CASE-LAR-11745-1] c 32 N80-29539
 Multiple band circularly polarized microstrip antenna
 [NASA-CASE-MSC-18334-1] c 32 N80-32604
 Spiral slotted phased antenna array
 [NASA-CASE-MSC-18532-1] c 32 N82-27558

ANTENNA FEEDS

- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

ANTENNA RADIATION PATTERNS

- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

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[NASA-CASE-XGS-09190] c 31 N71-16102
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063

ANTIBIOTICS

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[NASA-CASE-GSC-12046-1] c 52 N79-14750

ANTIFRICTION BEARINGS

- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

ANTIGRAVITY

- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

ANTIHISTAMINES

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

- Indomethacin-antihistamine combination for gastric ulceration control
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ANTIREFLECTION COATINGS

- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

ANVILS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

APERTURES

- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Threadless fastener apparatus Patent
[NASA-CASE-XFF-05302] c 15 N71-23254
- On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

APOLLO PROJECT

- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

APOLLO SPACECRAFT

- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

APPLICATIONS OF MATHEMATICS

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPROACH

- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS

- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

ARC DISCHARGES

- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

ARC HEATING

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES

- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

ARC LAMPS

- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

Depressurization of arc lamps

- [NASA-CASE-NPO-10790-1] c 33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

ARC SPRAYING

- Arc spray fabrication of metal matrix composite monotope
[NASA-CASE-LEW-13828-1] c 24 N85-30027

ARC WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

ARCHITECTURE

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

ARCHITECTURE (COMPUTERS)

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151

ARGON

- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

ARM (ANATOMY)

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

ARMATURES

- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS

- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ARRAYS

- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASPECT RATIO
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ASSEMBLIES
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

ASSEMBLING
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289

ASTRONAUT LOCOMOTION
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494

Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

ASTRONAVIGATION
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASTRONOMICAL TELESCOPES

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

ASYMMETRY

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

ATMOSPHERIC COMPOSITION

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

ATMOSPHERIC PHYSICS

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC RADIATION

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

ATMOSPHERIC TEMPERATURE

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC EXCITATIONS

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

ATOMIZERS

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

ATOMS

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

ATS

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640

Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132

Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159

Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094

Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

- Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
- ATTITUDE GYROS**
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- ATTITUDE INDICATORS**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- ATTITUDE STABILITY**
- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- AUDIO EQUIPMENT**
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDIO FREQUENCIES**
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- AUDIO SIGNALS**
- A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
- AUDITORY DEFECTS**
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- AUDITORY PERCEPTION**
- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUDITORY SIGNALS**
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDITORY STIMULI**
- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUGER EFFECT**
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- AUSTENITIC STAINLESS STEELS**
- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- AUTOCLAVES**
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- AUTOCORRELATION**
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194
- AUTOMATIC CONTROL**
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- AUTOMATIC CONTROL VALVES**
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- AUTOMATIC FREQUENCY CONTROL**
- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
- AUTOMATIC GAIN CONTROL**
- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- AUTOMATIC TEST EQUIPMENT**
- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- AUTOMATION**
- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
- AUTOMOBILE ENGINES**
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- AUTOMOBILE FUELS**
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- AUTONOMOUS NAVIGATION**
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- AUXILIARY POWER SOURCES**
- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- AVERAGE**
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- AVIONICS**
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

AXES (REFERENCE LINES)

- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986

AXIAL COMPRESSION LOADS

- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611

AXIAL FLOW TURBINES

- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS

- Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AXIAL STRESS

- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH

- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES

- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS

- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

B

BACK INJURIES

- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION

- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING

- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS

- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

BACKWARD WAVES

- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY

- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

BAGS

- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BAKING

- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

BALANCE

- Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

BALANCING

- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

BALL BEARINGS

- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

BALLAST (MASS)

- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

BALLASTS (IMPEDANCES)

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

BALLISTICS

- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING

- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOONS

- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS

- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

BANDPASS FILTERS

- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

BANDWIDTH

- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

BARIUM

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES

- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS

- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM TITANATES

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS

- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

BARRIERS

- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

BARS

- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

BASES (CHEMICAL)

- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATTERY CHARGERS

- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES

- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BEADS

- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS

- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS

- Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

BEAM SWITCHING

- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

BEAMS (SUPPORTS)

- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

BEARING (DIRECTION)

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464

- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
- Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)

- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

BEER LAW

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021

BELTS

- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BENDING

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS

- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION

- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- The 1-(dialkoxyposphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
- Fire resistant polymers based on 1-((dialkoxyposphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702

BERYLLIUM ALLOYS

- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIMETALS

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-C-16461-1] c 33 N79-11313

BINARY DATA

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MS-C-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINARY DIGITS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850

BINARY FLUIDS

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

BINOCULARS

Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MS-C-16260-1] c 51 N80-16714

BIODEGRADATION

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280

BIOELECTRIC POTENTIAL

Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY

Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MS-C-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

BIOINSTRUMENTATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-KSC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MS-C-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

BIOLUMINESCENCE

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rad, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIOMEDICAL DATA

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS

Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MS-C-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

BIOTELEMETRY

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems
 [NASA-CASE-MSC-14180-1] c 52 N76-14757
 Accelerometer telemetry system
 [NASA-CASE-ARC-10849-1] c 17 N76-29347
 Miniature ingestible telemeter devices to measure deep-body temperature
 [NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS
 Voltage regulator for battery power source --- using a bipolar transistor
 [NASA-CASE-FRC-10116-1] c 33 N79-23345
 Power converter
 [NASA-CASE-FRC-11014-1] c 33 N82-18494

BIREFRINGENCE
 Polarimeter for transient measurement Patent
 [NASA-CASE-XNP-08883] c 23 N71-16101

BISMUTH
 Manganese bismuth films with narrow transfer characteristics for Curie-point switching
 [NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
 Hall effect magnetometer
 [NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
 AC logic flip-flop circuits Patent
 [NASA-CASE-XGS-00823] c 10 N71-15910

BIT SYNCHRONIZATION
 Telemetry word forming unit
 [NASA-CASE-XNP-09225] c 09 N69-24333
 Transition tracking bit synchronization system
 [NASA-CASE-NPO-10844] c 07 N72-20140
 Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
 [NASA-CASE-NPO-11302-1] c 07 N73-13149
 Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
 [NASA-CASE-NPO-11302-2] c 32 N74-10132

BINARY CODE
 Minimal logic block encoder Patent
 [NASA-CASE-NPO-10595] c 10 N71-25917

BITS
 Parallel generation of the check bits of a PN sequence Patent
 [NASA-CASE-XNP-04623] c 10 N71-26103
 MOD 2 sequential function generator for multibit binary sequence
 [NASA-CASE-NPO-10636] c 08 N72-25210
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
 Oil shale extraction using super-critical extraction
 [NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
 Black-body furnace Patent
 [NASA-CASE-XLE-01399] c 33 N71-15625
 Cavity radiometer Patent
 [NASA-CASE-XNP-08961] c 14 N71-24809
 Conically shaped cavity radiometer with a dual purpose cone winding Patent
 [NASA-CASE-XNP-09701] c 14 N71-26475
 Black body cavity radiometer Patent
 [NASA-CASE-NPO-10810] c 14 N71-27323
 Stable density stratification solar pond
 [NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
 Prosthetic urinary sphincter
 [NASA-CASE-MFS-23717-1] c 52 N81-25660

BLADE TIPS
 Modification and improvements to cooled blades Patent
 [NASA-CASE-XLE-00092] c 15 N70-33264
 Tip cap for a rotor blade
 [NASA-CASE-LEW-13654-1] c 07 N84-22560
 Oxidizing seal for a turbine tip gas path
 [NASA-CASE-LEW-14053-1] c 37 N85-34402

BLADES
 Impact absorbing blade mounts for variable pitch blades
 [NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
 Line cutter Patent
 [NASA-CASE-XMS-04072] c 15 N70-42017
 Tissue macerating instrument
 [NASA-CASE-LEW-12668-1] c 52 N78-14773
 Crystal cleaving machine
 [NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
 Linear explosive comparison
 [NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOOD
 Reduction of blood serum cholesterol
 [NASA-CASE-NPO-12119-1] c 52 N75-15270

Gas diffusion liquid storage bag and method of use for storing blood
 [NASA-CASE-NPO-13930-1] c 52 N79-14749
 Dialysis system --- using ion exchange resin membranes permeable to urea molecules
 [NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW
 Logic-controlled occlusive cuff system
 [NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
 Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
 [NASA-CASE-XMS-06061] c 05 N71-23317
 Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
 [NASA-CASE-MSC-13999-1] c 52 N74-26626
 Arterial pulse wave pressure transducer
 [NASA-CASE-GSC-11531-1] c 52 N74-27566
 Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
 [NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
 Non-invasive method and apparatus for measuring pressure within a pliable vessel
 [NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
 Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
 Flow field simulation Patent
 [NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
 Conforming polisher for aspheric surface of revolution Patent
 [NASA-CASE-XGS-02884] c 15 N71-22705
 Moment of inertia test fixture Patent
 [NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
 Programmable physiological infusion
 [NASA-CASE-ARC-10447-1] c 52 N74-22771
 Method of detecting and counting bacteria
 [NASA-CASE-GSC-11917-2] c 51 N76-29891
 Micro-fluid exchange coupling apparatus
 [NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
 Space suit having improved waist and torso movement
 [NASA-CASE-ARC-10275-1] c 05 N72-22092
 Controller arm for a remotely related slave arm
 [NASA-CASE-ARC-11052-1] c 37 N79-28551
 Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
 Biomedical ultrasonoscope
 [NASA-CASE-ARC-10994-1] c 52 N76-33835
 Miniature implantable ultrasonic echosonometer
 [NASA-CASE-ARC-11035-1] c 52 N79-18580
 Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280
 Apparatus for determining changes in limb volume
 [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE
 Garments for controlling the temperature of the body Patent
 [NASA-CASE-XMS-10269] c 05 N71-24147
 Miniature ingestible telemeter devices to measure deep-body temperature
 [NASA-CASE-ARC-10583-1] c 52 N76-29894
 Method for thermal monitoring subcutaneous tissue
 [NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)
 Whole body measurement systems --- for weightlessness simulation
 [NASA-CASE-MSC-13972-1] c 52 N74-10975
 Apparatus for determining changes in limb volume
 [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS
 Free wing assembly for an aircraft
 [NASA-CASE-FRC-10092-1] c 05 N79-12061
 Means for controlling aerodynamically induced twist
 [NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS
 Boiler for generating high quality vapor Patent
 [NASA-CASE-XLE-00785] c 33 N71-16104
 Shell side liquid metal boiler
 [NASA-CASE-NPO-10831] c 33 N72-20915
 Carbon granule probe microphone for leak detection --- recovery boilers
 [NASA-CASE-NPO-16027-1] c 35 N85-21597

BOLOMETERS
 Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
 [NASA-CASE-XNP-01193] c 10 N71-16057
 Thin film capacitive bolometer and temperature sensor Patent
 [NASA-CASE-NPO-10607] c 09 N71-27232

Wedge immersed thermistor bolometers
 [NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTS
 Gas actuated bolt disconnect Patent
 [NASA-CASE-XLA-00326] c 03 N70-34667
 Despin weight release Patent
 [NASA-CASE-XLA-00679] c 15 N70-38601
 Inspection gage for boss Patent
 [NASA-CASE-XMF-04966] c 14 N71-17658
 Split nut separation system Patent
 [NASA-CASE-XNP-06914] c 15 N71-21489
 Fastener stretcher
 [NASA-CASE-GSC-11149-1] c 15 N73-30457
 Optimized bolted joint
 [NASA-CASE-LAR-13250-1] c 37 N84-20859

BONDING
 Bonding graphite with fused silver chloride
 [NASA-CASE-XGS-00963] c 15 N69-39735
 Bonded joint and method --- for reducing peak shear stress in adhesive bonds
 [NASA-CASE-LAR-10900-1] c 37 N74-23064
 Bonding method in the manufacture of continuous regression rate sensor devices
 [NASA-CASE-LAR-10337-1] c 24 N75-30260
 Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
 [NASA-CASE-MSC-14182-1] c 27 N76-14264
 Bonding machine for forming a solar array strip
 [NASA-CASE-NPO-13652-2] c 44 N79-24431
 Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
 [NASA-CASE-GSC-11577-3] c 24 N79-25143
 Method of making a partial interlaminar separation composite system
 [NASA-CASE-LAR-12065-2] c 24 N81-33235
 Attachment system for silica tiles --- thermal protection for space shuttle orbiter
 [NASA-CASE-MSC-18741-1] c 27 N82-29456
 Surface texturing of fluoropolymers
 [NASA-CASE-LEW-13028-1] c 27 N82-33521
 Heat sealable, flame and abrasion resistant coated fabric
 [NASA-CASE-MSC-18382-2] c 27 N84-14324
 Insulation bonding test system
 [NASA-CASE-MFS-25862-1] c 27 N85-20126
 Method for forming hermetic seals
 [NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
 Cryogenic insulation strength and bond tester
 [NASA-CASE-MFS-25910-1] c 39 N86-20841

BONES
 Ultrasonic bone densitometer
 [NASA-CASE-MFS-20994-1] c 35 N75-12271
 Method and system for in vivo measurement of bone tissue using a two level energy source
 [NASA-CASE-MSC-14276-1] c 52 N77-14737
 Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
 [NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOMS (EQUIPMENT)
 Folding boom assembly Patent
 [NASA-CASE-XGS-00938] c 32 N70-41367
 Collapsible antenna boom and transmission line Patent
 [NASA-CASE-MFS-20068] c 07 N71-27191
 Minimech self-deploying boom mechanism
 [NASA-CASE-GSC-10566-1] c 15 N72-18477
 Mechanically extendible telescoping boom
 [NASA-CASE-NPO-11118] c 03 N72-25021
 Extended moment arm anti-spin device
 [NASA-CASE-LAR-12979-1] c 05 N85-21147

BOOSTER RECOVERY
 Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176
 Recoverable single stage spacecraft booster Patent
 [NASA-CASE-XMF-01973] c 31 N70-41588
 Orbiter/launch system
 [NASA-CASE-LAR-12250-1] c 14 N81-26161

BOOSTER ROCKET ENGINES
 Segmented back-up bar Patent
 [NASA-CASE-XMF-00640] c 15 N70-39924
 Recoverable single stage spacecraft booster Patent
 [NASA-CASE-XMF-01973] c 31 N70-41588
 Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
 [NASA-CASE-MFS-25853-1] c 16 N84-27784

BOOTS (FOOTWEAR)
 Walking boot assembly
 [NASA-CASE-ARC-11101-1] c 54 N78-17675

BORIDES
 Method of making a light weight battery plaque
 [NASA-CASE-LEW-13349-1] c 26 N84-22734

BORING MACHINES
 Boring bar drive mechanism Patent
 [NASA-CASE-XLA-03661] c 15 N71-33518
 Borehole geological assessment
 [NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device [NASA-CASE-GSC-11425-1] c 76 N74-20329

BORON CARBIDES

Catalyst for growth of boron carbide single crystal whiskers [NASA-CASE-XHQ-03903] c 15 N69-21922

BORON FLUORIDES

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge [NASA-CASE-ARC-11057-1] c 27 N78-31233

BOROSILICATE GLASS

Method for repair of thin glass coatings --- on space shuttle orbiter tiles [NASA-CASE-KSC-11097-1] c 27 N82-33520

BOULES

Ingot slicing machine and method [NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY LAYER CONTROL

Double hinged flap Patent [NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means [NASA-CASE-LAR-12326-1] c 02 N81-14968

BOUNDARY LAYER FLOW

Combined riblet and LEBU drag reduction system [NASA-CASE-LAR-13286-1] c 02 N85-28922

BOUNDARY LAYER SEPARATION

Tertiary flow injection thrust vectoring system Patent [NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines [NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet [NASA-CASE-LEW-11890-1] c 05 N79-24976

BOUNDARY LAYER TRANSITION

Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests [NASA-CASE-LAR-12261-1] c 02 N80-20224

BOUNDARY LAYERS

Traversing probe Patent [NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature [NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

Storage container for electronic devices Patent [NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly [NASA-CASE-MFS-28057-1] c 09 N85-28951

BRACKETS

Electrical servo actuator bracket --- fuel control valves on jet engines [NASA-CASE-FRC-11044-1] c 37 N81-33483

BRAKES (FOR ARRESTING MOTION)

Frangible tube energy dissipation Patent [NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent [NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake [NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake [NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device [NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves [NASA-CASE-LAR-12372-1] c 37 N82-18601

BRAKING

Regenerative braking system Patent [NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent [NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent [NASA-CASE-XMF-05224] c 14 N71-23726

BRAZING

Pretreatment method for anti-wettable materials [NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent [NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent [NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent [NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder [NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition [NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy [NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components [NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS

Transfer valve Patent [NASA-CASE-XAC-01158] c 15 N71-23051
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Television signal processing system Patent [NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus [NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light [NASA-CASE-KSC-11010-1] c 74 N79-12890

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Flexible blade antenna Patent [NASA-CASE-MSC-12101] c 09 N71-18720
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High-gain, broadband traveling wave maser Patent [NASA-CASE-NPO-10548] c 16 N71-24831
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Cascaded complementary pair broadband transistor amplifiers Patent [NASA-CASE-NPO-10003] c 10 N71-26415

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Thin wire pointing method [NASA-CASE-NPO-15789-1] c 31 N83-19947

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Method of forming frozen spheres in a force-free drop tower [NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method [NASA-CASE-NPO-15334-1] c 71 N83-35781

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BUFFER STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application [NASA-CASE-XNP-04162-1] c 08 N70-34675
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Common data buffer system --- communication with computational equipment utilized in spacecraft operations [NASA-CASE-KSC-11048-1] c 62 N81-24779

BUFFERS (CHEMISTRY)

Static continuous electrophoresis device [NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

Foldable construction block [NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS

External bulb variable volume maser [NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

Tank construction for space vehicles Patent [NASA-CASE-XMF-01899] c 31 N70-41948

BUOYANCY

Inflatable radar reflector unit Patent [NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

Micronized coal burner facility [NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

Burning rate control of solid propellants Patent [NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus [NASA-CASE-XMS-09690] c 33 N72-25913
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Spherically-shaped rocket motor Patent [NASA-CASE-XHQ-01897] c 28 N70-35381

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Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin [NASA-CASE-NPO-14402-1] c 52 N81-27783

BUS CONDUCTORS

Test apparatus for locating shorts during assembly of electrical buses [NASA-CASE-ARC-11116-1] c 33 N82-24420

BUTANES

Production of butanol by fermentation in the presence of cocultures of clostridium [NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

Channel-type shell construction for rocket engines and the like Patent [NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent [NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints [NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

Flexible seal for valves Patent [NASA-CASE-XLE-00101] c 15 N70-33376

BUTYRIC ACID

Production of butanol by fermentation in the presence of cocultures of clostridium [NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

Low power drain semi-conductor circuit [NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter [NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider [NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array [NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system [NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines [NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt [NASA-CASE-LEW-13107-2] c 52 N84-23095

C

CABLE FORCE RECORDERS

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES

Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

CABLES (ROPES)

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
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[NASA-CASE-XGS-02554] c 31 N71-21064
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

CADMIUM SULFIDES

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

CALCIUM

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

CALCULI

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121
Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

CALORIMETERS

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

CAMERAS

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

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Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

CANCER

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

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Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

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Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470

CANTILEVER BEAMS

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

CANTILEVER MEMBERS

Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407

CAPACITANCE

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-NXP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

CAPACITANCE SWITCHES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

CAPACITORS

Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

CAPILLARY FLOW

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568

CAPILLARY TUBES

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896

Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179

CARBAZOLES

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES

Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748

CARBOHYDRATES

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

CARBON

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

CARBON ARCS

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-C-13332-1] c 14 N72-21408

Metabolic rate meter and method
[NASA-CASE-MS-C-12239-1] c 52 N79-21750

CARBON DIOXIDE LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391

Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MS-C-14771-1] c 54 N77-32722

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MS-C-16182-1] c 54 N80-10799

CARBON FIBER REINFORCED PLASTICS

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARBON FIBERS

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-MFS-22060-1] c 24 N83-33950

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

CARBON MONOXIDE

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

CARBON-CARBON COMPOSITES

Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CARBONACEOUS MATERIALS

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION

Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

CARBORANE

Process for the preparation of polycarbonarylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Carboranyl methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBONYL GROUP

Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY

Digital cardiographometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS

Digital computing cardiographometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298

Automatic carrier acquisition system
[NASA-CASE-NPO-11828-1] c 07 N73-30113

Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER LIFETIME

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251

CARRIER WAVES

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES

Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

CARTRIDGES

Endless tape cartridge Patent
[NASA-CASE-XGS-00789] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

CASES (CONTAINERS)

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

CASSEGRAIN ANTENNAS

Cassegrain antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- CASTING**
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- CASTINGS**
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- CATALYSIS**
- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- CATALYSTS**
- Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21822
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- CATALYTIC ACTIVITY**
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- CATHETERIZATION**
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- CATHODE RAY TUBES**
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- CATHODES**
- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149
- Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- CATIONS**
- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- CAVITATION FLOW**
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- CAVITIES**
- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- CAVITY RESONATORS**
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- CELESTIAL BODIES**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- CELESTIAL NAVIGATION**
- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- CELL ANODES**
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- CELL DIVISION**
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- CELLS**
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- CELLS (BIOLOGY)**
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- CELLULOSE**
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- CELLULOSE NITRATE**
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- CENTRAL PROCESSING UNITS**
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- CENTRIFUGAL COMPRESSORS**
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- CENTRIFUGAL FORCE**
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- CENTRIFUGES**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- CERAMIC BONDING**
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- CERAMIC COATINGS**
- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- CERAMIC NUCLEAR FUELS**
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- CERAMICS**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

CEREBROSPINAL FLUID
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CERMETS
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

CESIUM
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

CESIUM DIODES
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

CESIUM ENGINES
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

CESIUM VAPOR
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

CHALCOGENIDES
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

CHAMBERS
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749

CHANNEL FLOW

Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

CHANNELS (DATA TRANSMISSION)

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252

CHARACTER RECOGNITION

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

CHARGE COUPLED DEVICES

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N79-17134
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

CHARGE DISTRIBUTION

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

CHARGE EFFICIENCY

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

CHARGE EXCHANGE

Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148

CHARGE TRANSFER

Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360

CHARGE TRANSFER DEVICES

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

CHARGED PARTICLES

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

CHARGING

Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020

CHARRING

Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
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CHASSIS

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

CHECKOUT

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

CHEMICAL ANALYSIS

Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS

Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

CHEMICAL COMPOSITION

Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685

CHEMICAL COMPOUNDS

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS

Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

CHEMICAL MACHINING

Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

CHEMICAL PROPERTIES

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

CHEMICAL REACTIONS

Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-1235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-1236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonitilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Trialkyl-dihaloantantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MSC-15587-1] c 33 N73-16918
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Method for detecting pollutants — through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
The 1-(diorganooxophosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

CHEMICAL REACTORS

Chemical vapor deposition reactor — providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon — gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

CHEMICAL TESTS

Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

CHEMILUMINESCENCE

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

CHEMOTHERAPY

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)

Head for high speed spinner having a vacuum chuck — holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441

CHIRP SIGNALS

Method for shaping and aiming narrow beams — sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORINATION

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

Flexible fire retardant polyisocyanate modified neoprene foam — for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

CHOLESTEROL

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

Chromato-fluorographic drug detector — device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

Selective coating for solar panels — using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM COMPOUNDS

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCUIT BOARDS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed, circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector — for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129

Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573

Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

CIRCUIT RELIABILITY

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

CIRCUITS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

CIRCULAR CONES

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

CIRCULAR TUBES

Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CLAMPING CIRCUITS

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

CLAYS

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CLEANERS

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

CLEANING

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

CLEAR AIR TURBULENCE

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

CLEARANCES

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

CLINICAL MEDICINE

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLIPS

- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLOCKS

- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

CLOSED CIRCUIT TELEVISION

- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

CLOSED CYCLES

- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS

- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

CLOSTRIDIUM BOTULINUM

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES

- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS

- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER

- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)

- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES

- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

CLUTTER

- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CMOS

- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAL

- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-18255
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION

- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

COAL LIQUEFACTION

- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING

- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

COATINGS

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

COAXIAL CABLES

- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

COAXIAL PLASMA ACCELERATORS

- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT

- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS

- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT OXIDES

- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS

- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS

- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS

- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

CODING

- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COEFFICIENT OF FRICTION

- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

- Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

COHERENT LIGHT

- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION

- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-18331
- COLD CATHODES**
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- COLD GAS**
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- COLD WELDING**
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- COLD WORKING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- COLLAPSE**
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
- COLLECTION**
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- COLLIMATION**
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
- COLLIMATORS**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- COLLISION AVOIDANCE**
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- COLLOIDAL GENERATORS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- COLLOIDAL PROPELLANTS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- COLLOIDS**
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

COLOR

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- COLOR PHOTOGRAPHY**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- COLOR TELEVISION**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- COLOR VISION**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- COLUMNS**
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- COLUMNS (PROCESS ENGINEERING)**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- COLUMNS (SUPPORTS)**
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
- COMBINATORIAL ANALYSIS**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- COMBUSTION**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- COMBUSTION CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075

- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- COMBUSTION CONTROL**
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- COMBUSTION EFFICIENCY**
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- COMBUSTION PHYSICS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- COMBUSTION PRODUCTS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- COMBUSTION STABILITY**
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- COMET TAILS**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- COMFORT**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- COMMAND AND CONTROL**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- COMMAND MODULES**
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- COMMUNICATING**
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- COMMUNICATION**
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- COMMUNICATION CABLES**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT

- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654

COMMUNICATION SATELLITES

- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION

- High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS

- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

COMPARATORS

- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N85-20247

COMPENSATORS

- Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

COMPLEX COMPOUNDS

- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPONENT RELIABILITY

- Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086

COMPOSITE MATERIALS

- Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

Method for producing fiber reinforced metallic composites Patent

- [NASA-CASE-XLE-03925] c 18 N71-22894
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686

COMPOSITE PROPELLANTS

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

COMPOSITE STRUCTURES

- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536

- Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
- Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
- Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686

COMPOSITION (PROPERTY)

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

COMPRESSED AIR

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

COMPRESSIBILITY

- Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

COMPRESSIBLE FLUIDS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

COMPRESSING

- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

COMPRESSION LOADS

- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799

COMPRESSION RATIO

- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

COMPRESSION TESTS

- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

COMPRESSOR BLADES

- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

COMPRESSOR ROTORS

- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

COMPRESSORS

- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

COMPUTATION

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER COMPONENTS

- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

COMPUTER DESIGN

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS

- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164

COMPUTER NETWORKS

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

COMPUTER PROGRAMMING

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

COMPUTER PROGRAMS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

COMPUTER STORAGE DEVICES

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core-memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

COMPUTER SYSTEMS DESIGN

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

COMPUTER TECHNIQUES

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COMPUTERIZED SIMULATION

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

COMPUTERS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

CONCAVITY

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

CONCENTRIC CYLINDERS

- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470

CONCENTRIC SPHERES

- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONDENSATES

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSERS (LIQUEFIERS)

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS

- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTIVE HEAT TRANSFER

- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conduction
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

CONDUCTORS

- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES

- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT

- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

CONFINEMENT

- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

CONICAL SCANNING

- Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES

- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02387-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

CONSCIOUSNESS

- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY

- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES

- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSTANTS

- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS

- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

CONSTRUCTION MATERIALS

- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

CONTACT POTENTIALS

- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

CONTAINERLESS MELTS

- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684

CONTAINERS

- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

CONTAINMENT

- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS

- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CONTAMINATION

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527

CONTINUOUS RADIATION

- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS

- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR

- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

CONTOURS

- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL

- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

CONTROL BOARDS

- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

CONTROL DATA (COMPUTERS)

- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

CONTROL EQUIPMENT

- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

CONTROLLED ATMOSPHERES

- Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614
- CONTROL ROCKETS**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- CONTROL RODS**
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- CONTROL SIMULATION**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CONTROL STABILITY**
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- CONTROL SURFACES**
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- CONTROL SYSTEMS DESIGN**
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- CONTROL UNITS (COMPUTERS)**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- CONTROL VALVES**
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Flow diverter valve and flow diversion method
[NASA-CASE-HON-00573-1] c 37 N79-33468
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Slow opening valve --- valve design for shuttle port oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- CONTROLLED ATMOSPHERES**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS

- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114
- CONVECTION**
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- CONVECTIVE FLOW**
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- CONVECTIVE HEAT TRANSFER**
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- CONVERGENCE**
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
- CONVERGENT NOZZLES**
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- CONVERGENT-DIVERGENT NOZZLES**
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- CONVERSION**
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- CONVERTERS**
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- CONVEYORS**
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- COOLANTS**
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- COOLERS**
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
- COOLING**
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Compact pulsed laser having improved heat conduction
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- COOLING SYSTEMS**
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

COORDINATES

- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Lighting tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

COPOLYMERIZATION

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

COPOLYMERS

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Dicyanocetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

COPPER

- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

COPPER COMPOUNDS

- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

- Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

CORDAGE

- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

CORROSION RESISTANCE

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

CORRUGATED PLATES

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

CORRUGATING

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST

Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

COST ANALYSIS

Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

COST EFFECTIVENESS

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471

COUCHES

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERS

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

COUNTING CIRCUITS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLING

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

COUPLING CIRCUITS

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

COUPLINGS

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Tube coupling device
[NASA-CASE-MFS-25964-1] c 37 N85-20378
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

COVARIANCE

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COVERINGS

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

COWLINGS

Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACKING (FRACTURING)

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

CRACKS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

CRASH LANDING

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
 Patent
 [NASA-CASE-XLE-02082] c 17 N71-16026

CREEP TESTS
 Tensile testing apparatus
 [NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS
 Gas liquefaction and dispensing apparatus Patent
 [NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE
 Stable superconducting magnet --- high current levels below critical temperature
 [NASA-CASE-XMF-05373-1] c 33 N79-21264

CROSS CORRELATION
 Cross correlation anomaly detection system
 [NASA-CASE-NPO-13283] c 38 N78-17395
 Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
 [NASA-CASE-NPO-15430-1] c 46 N85-21846

CROSS FLOW
 Aerodynamic side-force alleviator means
 [NASA-CASE-LAR-12326-1] c 02 N81-14968
 Wingtip vortex propeller
 [NASA-CASE-LAR-13019-1] c 07 N85-35194

CROSS POLARIZATION
 Adaptive polarization separation
 [NASA-CASE-LAR-12196-1] c 33 N81-26358

CROSS SECTIONS
 Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
 [NASA-CASE-NPO-16271-1] c 36 N84-15537

CROSSED FIELDS
 Plasma accelerator Patent
 [NASA-CASE-XLA-00675] c 25 N70-33267
 Energy conversion apparatus Patent
 [NASA-CASE-XLE-00212] c 03 N70-34134
 Crossed-field MHD plasma generator/accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562

CROSSLINKING
 Trifunctional alcohol
 [NASA-CASE-NPO-10714] c 06 N69-31244
 Trimerization of aromatic nitriles
 [NASA-CASE-LEW-12053-1] c 27 N78-15276
 Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
 [NASA-CASE-ARC-11008-1] c 27 N78-31232
 In situ self cross-linking of polyvinyl alcohol battery separators
 [NASA-CASE-LEW-12972-1] c 44 N79-25481
 Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
 [NASA-CASE-LEW-12053-2] c 27 N79-28307
 Method of cross-linking polyvinyl alcohol and other water soluble resins
 [NASA-CASE-LEW-13103-1] c 27 N80-32516
 Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
 [NASA-CASE-ARC-11248-1] c 27 N81-17259
 The 1,2,4-oxadiazole elastomers --- heat resistant polymers
 [NASA-CASE-ARC-11253-1] c 27 N81-17262
 In-situ cross linking of polyvinyl alcohol --- application to battery separator films
 [NASA-CASE-LEW-13135-2] c 27 N81-24257
 Cross-linked polyvinyl alcohol and method of making same
 [NASA-CASE-LEW-13101-2] c 23 N81-29160
 Polyvinyl alcohol cross-linked with two aldehydes
 [NASA-CASE-LEW-13504-1] c 25 N83-13188
 Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
 [NASA-CASE-NPO-14857-1] c 27 N83-19900
 Low temperature cross linking polyimides
 [NASA-CASE-LEW-12876-2] c 27 N83-29392
 Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
 [NASA-CASE-NPO-14987-1] c 24 N83-33950
 Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
 [NASA-CASE-LAR-12838-1] c 27 N83-34040
 Process for preparing perfluorotriazine elastomers and precursors thereof
 [NASA-CASE-ARC-11402-1] c 27 N84-22744
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-1] c 27 N84-22747
 Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
 [NASA-CASE-LAR-12723-1] c 27 N85-20123

Chemical approach for controlling nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-5] c 27 N85-21352
 Chemical control of nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-2] c 25 N85-28982

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 Evaporant holder
 [NASA-CASE-XLA-03105] c 15 N69-27483

CRUCIFORM WINGS
 Solar powered aircraft
 [NASA-CASE-LAR-12615-1] c 05 N84-12154

CRUDE OIL
 Decontamination of petroleum products Patent
 [NASA-CASE-XNP-03835] c 06 N71-23499
 Crude oil desulfurization
 [NASA-CASE-NPO-14542-1] c 25 N82-23282

CRUSTAL FRACTURES
 System for real-time crustal deformation monitoring
 [NASA-CASE-NPO-14124-1] c 46 N80-14603

CRYOGENIC COOLING
 Support assembly for cryogenically coolable low-noise choke waveguide
 [NASA-CASE-NPO-14253-1] c 32 N80-32605
 Low cost cryostat
 [NASA-CASE-NPO-14513-1] c 35 N81-14287
 Stirling cycle cryogenic cooler --- magnetically suspended pistons
 [NASA-CASE-GSC-12697-1] c 31 N82-11312
 Stirling cycle cryogenic cooler
 [US-PATENT-4,389,849] c 44 N83-28574
 Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
 [NASA-CASE-MFS-25946-1] c 20 N84-15183

CRYOGENIC EQUIPMENT
 Refrigeration apparatus
 [NASA-CASE-NPO-10309] c 15 N69-23190
 Piping arrangement through a double chamber structure
 [NASA-CASE-XNP-08882] c 15 N69-39935
 Method and apparatus for cryogenic wire stripping Patent
 [NASA-CASE-MFS-10340] c 15 N71-17628
 Dual solid cryogens for spacecraft refrigeration Patent
 [NASA-CASE-GSC-10188-1] c 23 N71-24725
 Valving device for automatic refilling in cryogenic liquid systems
 [NASA-CASE-NPO-11177] c 15 N72-17453
 Dual stage check valve
 [NASA-CASE-MSC-13587-1] c 15 N73-30459
 Heat operated cryogenic electrical generator
 [NASA-CASE-NPO-13303-1] c 20 N75-24837
 Cryostat system for temperatures on the order of 2 deg K or less
 [NASA-CASE-NPO-13459-1] c 31 N77-10229
 Device for tensioning test specimens within an hermetically sealed chamber
 [NASA-CASE-MFS-23281-1] c 35 N77-22450
 Multistage refrigeration system
 [NASA-CASE-NPO-13839-1] c 31 N78-25256
 System for and method of freezing biological tissue
 [NASA-CASE-GSC-12173-1] c 51 N79-10694
 Shock isolator for operating a diode laser on a closed-cycle refrigerator
 [NASA-CASE-GSC-12297-1] c 37 N79-28549
 Low temperature latching solenoid
 [NASA-CASE-MSC-18106-1] c 33 N82-11357
 Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
 [NASA-CASE-MFS-25678-1] c 37 N84-11497
 Magnetically actuated compressor
 [NASA-CASE-GSC-12799-1] c 31 N85-21404

CRYOGENIC FLUID STORAGE
 Apparatus for transferring cryogenic liquids Patent
 [NASA-CASE-XLE-00345] c 15 N70-38020
 Cryogenic storage system Patent
 [NASA-CASE-XMS-04390] c 31 N70-41871
 Techniques for insulating cryogenic fuel containers Patent
 [NASA-CASE-XLA-01967] c 31 N70-42015
 Method of making a filament-wound container Patent
 [NASA-CASE-XLE-03803-2] c 15 N71-17651
 Cryogenic insulation system Patent
 [NASA-CASE-XLE-04222] c 23 N71-22881
 Panelized high performance multilayer insulation Patent
 [NASA-CASE-MFS-14023] c 33 N71-25351
 Cryogenic thermal insulation Patent
 [NASA-CASE-XMF-05046] c 33 N71-28892
 Zero gravity shadow shield aligner
 [NASA-CASE-KSC-10622-1] c 31 N72-21893
 Heater-mixer for stored fluids
 [NASA-CASE-ARC-10442-1] c 35 N74-15093
 Low heat leak connector for cryogenic system
 [NASA-CASE-XLE-02367-1] c 31 N79-21225

Cryogenic container compound suspension strap
 [NASA-CASE-ARC-11157-1] c 37 N80-18393
 Cryogenic insulation strength and bond tester
 [NASA-CASE-MFS-25910-1] c 39 N86-20841

CRYOGENIC FLUIDS
 Cryogenic apparatus for measuring the intensity of magnetic fields
 [NASA-CASE-XAC-02407] c 14 N69-27423
 Venting vapor apparatus Patent
 [NASA-CASE-XLE-00288] c 15 N70-34247
 Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
 Fluid coupling Patent
 [NASA-CASE-XLE-00397] c 15 N70-36492
 Densitometer Patent
 [NASA-CASE-XLE-00688] c 14 N70-41330
 Cryogenic connector for vacuum use Patent
 [NASA-CASE-XGS-02441] c 15 N70-41629
 Liquid flow sight assembly Patent
 [NASA-CASE-XLE-02998] c 14 N70-42074
 Automatic thermal switch Patent
 [NASA-CASE-XNP-03796] c 23 N71-15467
 Zero gravity separator Patent
 [NASA-CASE-XLE-00586] c 15 N71-15968
 Apparatus for measuring thermal conductivity Patent
 [NASA-CASE-XGS-01052] c 14 N71-15992
 Process of forming particles in a cryogenic path Patent
 [NASA-CASE-NPO-10250] c 23 N71-16212
 Superconducting alternator Patent
 [NASA-CASE-XLE-02823] c 09 N71-23443
 Flow angle sensor and read out system Patent
 [NASA-CASE-XLE-04503] c 14 N71-24864
 Geysering inhibitor for vertical cryogenic transfer pipe
 [NASA-CASE-KSC-10615] c 15 N73-12486
 Magnetocaloric pump --- for cryogenic fluids
 [NASA-CASE-LEW-11672-1] c 37 N74-27904
 Cryogenic liquid sensor
 [NASA-CASE-NPO-10619-1] c 35 N77-21393

CRYOGENIC GYROSCOPES
 Cryogenic gyroscope housing --- with annular disks for gas spin-up
 [NASA-CASE-MFS-21136-1] c 35 N74-18323

CRYOGENIC MAGNETS
 Superconducting alternator
 [NASA-CASE-XLE-02824] c 03 N69-39890

CRYOGENIC ROCKET PROPELLANTS
 Quick attach and release fluid coupling assembly Patent
 [NASA-CASE-XKS-01985] c 15 N71-10782
 Hot wire liquid level detector for cryogenic fluids Patent
 [NASA-CASE-XLE-00454] c 23 N71-17802
 Automatic pump Patent
 [NASA-CASE-XNP-04731] c 15 N71-24042

CRYOGENIC STORAGE
 Insulation system Patent
 [NASA-CASE-XLE-02647] c 18 N71-23658
 Filament wound container Patent
 [NASA-CASE-XLE-03803] c 15 N71-23816

CRYOGENIC WIND TUNNELS
 Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
 [NASA-CASE-LAR-12315-1] c 37 N82-24490

CRYOGENICS
 Low temperature aluminum alloy Patent
 [NASA-CASE-XMF-02786] c 17 N71-20743
 Cryogenic cooling system Patent
 [NASA-CASE-NPO-10467] c 23 N71-26654
 Germanium coated microbridge and method
 [NASA-CASE-MFS-23274-1] c 33 N78-13320
 Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
 [NASA-CASE-NPO-14254-1] c 36 N80-18372
 High toughness-high strength iron alloy
 [NASA-CASE-LEW-12542-3] c 26 N80-32484
 Multispectral scanner optical system
 [NASA-CASE-MSC-18255-1] c 74 N80-33210
 Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
 [NASA-CASE-NPO-10424-1] c 27 N81-24258

CRYOLITE
 Ultraviolet filter
 [NASA-CASE-XNP-02340] c 23 N69-24332

CRYOSTATS
 Low temperature flexure fatigue cryostat Patent
 [NASA-CASE-XMF-02964] c 14 N71-17659
 Horizontal cryostat for fatigue testing Patent
 [NASA-CASE-XMF-10968] c 14 N71-24234
 Heater-mixer for stored fluids
 [NASA-CASE-ARC-10442-1] c 35 N74-15093
 Cryostat system for temperatures on the order of 2 deg K or less
 [NASA-CASE-NPO-13459-1] c 31 N77-10229

- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- CRYOTRAPPING**
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- CRYSTAL DEFECTS**
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933
- CRYSTAL FILTERS**
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- CRYSTAL GROWTH**
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933
- CRYSTAL LATTICES**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- CRYSTAL OPTICS**
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- CRYSTAL OSCILLATORS**
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- CRYSTAL RECTIFIERS**
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- CRYSTAL STRUCTURE**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- CRYSTALLINITY**
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933
- CRYSTALLIZATION**
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
- CRYSTALS**
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- CUBIC LATTICES**
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- CUES**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CUFFS**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- CULTURE TECHNIQUES**
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- CURIE TEMPERATURE**
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- CURING**
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Aminophenoxy-cyclophosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686
- CURRENT AMPLIFIERS**
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- CURRENT DENSITY**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- CURRENT DISTRIBUTION**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- CURRENT REGULATORS**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Inrush current limiter
[NASA-CASE-NPO-11789-1] c 33 N77-14333
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- CURVATURE**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- CURVE FITTING**
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- CURVED PANELS**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Variable contour securing system
[NASA-CASE-MS-16270-1] c 37 N78-27423
- CUSHIONS**
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- CUTTERS**
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Open ended tubing cutters
[NASA-CASE-MS-18538-1] c 37 N82-26672
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- CUTTING**
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- CYANATES**
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- CYANO COMPOUNDS**
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
- CYCLES**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- CYCLIC ACCELERATORS**
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- CYCLIC COMPOUNDS**
Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- CYCLIC HYDROCARBONS**
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- CYCLIC LOADS**
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- CYCLOTRON RADIATION**
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Gyrotion transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDERS

- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289

CYLINDRICAL ANTENNAS

- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES

- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

CYLINDRICAL CHAMBERS

- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CYSTS

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CZOCHEWSKI METHOD

- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D**DAMAGE**

- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

DAMPERS (VALVES)

- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING

- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

- Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

DATA ACQUISITION

- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

DATA COLLECTION PLATFORMS

- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

DATA CONVERTERS

- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

- Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION

- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS

- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11458] c 08 N73-26176

- Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

DATA MANAGEMENT

- Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

- Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-16253-1] c 32 N79-20297

- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-20187-1] c 33 N85-20249

- LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202

DATA PROCESSING EQUIPMENT

- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

DATA RECORDERS

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431

Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

DATA RETRIEVAL

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

DATA SYSTEMS

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSMISSION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221

A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

DAWSONITE

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEBRIS

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

DECAY RATES

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410

Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DECODERS

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407

Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680

DECODING

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

DECOMMUTATORS

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619

Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DEEP SPACE NETWORK

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

DEFLECTORS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

DEFOCUSING

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION

DEFORMATION

- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

DEGASSING

- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

DEHUMIDIFICATION

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

DEICERS

- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

DELAY CIRCUITS

- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

DELAY LINES

- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION

- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS

- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

DEMAGNETIZATION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMULATION

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video demodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

DEMULATORS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- DEMDRITIC CRYSTALS**
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018

DENTISTRY

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXYGENATION

- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT

- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

DEPOSITION

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

DEPOSITS

- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH MEASUREMENT

- Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018

DESCENT

- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESTRUCTIVE TESTS

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

DETECTION

- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

DETECTORS

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Multiple pass reimagining optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

DETONATION
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

DETONATION WAVES
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DEUTERIUM
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DEW POINT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

DIAGNOSIS
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

DIAGRAMS
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

DIAMETERS
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289

DIAMINES
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1 - (dialkoxyphosphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and -2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

DIAMONDS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N85-20377
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

DIAIOMIC GASES
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

DIELECTRICS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-NPO-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

DIELS-ALDER REACTIONS
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

DIES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

DIESEL ENGINES
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIGITAL COMMAND SYSTEMS

DIFFERENCES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

DIFFUSERS
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749

DIFFUSION
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

DIGITAL COMPUTERS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DIGITAL FILTERS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

DIGITAL INTEGRATORS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248

Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887

Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Smoother filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Amine terminated bispartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340

DIPLOE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18608-1] c 32 N82-11336

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682
- DIRECT LIFT CONTROLS**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- DIRECT POWER GENERATORS**
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
- DIRECTIONAL ANTENNAS**
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- DIRECTIONAL CONTROL**
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- DIRECTIONAL SOLIDIFICATION (CRYSTALS)**
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- DIRECTIONAL STABILITY**
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- DIRECTIVITY**
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- DISCHARGE**
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537
- DISCONNECT DEVICES**
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- DISCONTINUITY**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- DISCRIMINATORS**
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- DISPENSERS**
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- DISPERSING**
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- DISPERSIONS**
Preparation of alkali metal dispersions
[NASA-CASE-NXP-08876] c 17 N73-28573
- DISPLACEMENT**
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- DISPLACEMENT MEASUREMENT**
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- DISPLAY DEVICES**
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
- Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
- Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

Full color hybrid display for aircraft simulators --- landing aids
 [NASA-CASE-ARC-10903-1] c 09 N78-18083
 Chromatically corrected virtual image display --- lens design for flight simulators
 [NASA-CASE-LAR-12251-1] c 74 N79-14892
 Miniature implantable ultrasonic echosonometer
 [NASA-CASE-ARC-11035-1] c 52 N79-18580
 System and method for obtaining wide screen Schlieren photographs
 [NASA-CASE-NPO-14174-1] c 74 N79-20856
 Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
 [NASA-CASE-LAR-12251-1] c 74 N80-27185
 System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
 [NASA-CASE-GSC-12411-1] c 33 N81-14221
 System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
 [NASA-CASE-FRC-11005-1] c 06 N82-16075
 Environmental fog/rain visual display system for aircraft simulators
 [NASA-CASE-ARC-11158-1] c 09 N82-24212
 Synchronized voltage contrast display analysis system
 [NASA-CASE-NPO-14567-1] c 33 N83-18996
 Real-time 3-D X-ray and gamma-ray viewer
 [NASA-CASE-GSC-12640-1] c 74 N84-11920
 Simulator scene display evaluation
 [NASA-CASE-ARC-11504-1] c 09 N84-16221
 Aircraft control position indicator
 [NASA-CASE-LAR-12984-1] c 06 N84-20522
 Aircraft liftemeter
 [NASA-CASE-LAR-12518-1] c 06 N84-32383
 Retinally stabilized differential resolution television display
 [NASA-CASE-NPO-15432-1] c 32 N85-29117
 Instrumentation for sensing moisture content of material using a transient thermal pulse
 [NAS 1.71:NPO-15494-2] c 35 N85-34373

DISSIPATION
 Voltage regulator with plural parallel power source sections Patent
 [NASA-CASE-GSC-10891-1] c 10 N71-26626
 Warm fog dissipation using large volume water sprays
 [NASA-CASE-MFS-25962-1] c 09 N84-32398

DISSOCIATION
 Solar hydrogen generator
 [NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
 Zero gravity liquid mixer
 [NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE
 Optical distance measuring instrument
 [US-PATENT-APPL-SN-406820] c 74 N83-13982

DISTANCE MEASURING EQUIPMENT
 Binary coded sequential acquisition ranging system
 [NASA-CASE-NPO-11194] c 08 N72-25209
 Determining distance to lightning strokes from a single station
 [NASA-CASE-KSC-10698] c 07 N73-20175
 Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
 [NASA-CASE-NPO-14521-1] c 37 N81-27519
 Geodetic distance measuring apparatus
 [NASA-CASE-GSC-12609-2] c 36 N83-29681
 Rotary target V-block
 [NASA-CASE-LAR-12007-3] c 35 N84-16523

DISTILLATION EQUIPMENT
 Compact solar still Patent
 [NASA-CASE-XMS-04533] c 15 N71-23086
 Method and apparatus for distillation of liquids Patent
 [NASA-CASE-XNP-08124] c 15 N71-27184
 Method for distillation of liquids
 [NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS
 Cascaded complementary pair broadband transistor amplifiers Patent
 [NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING
 Distributed multiport memory architecture
 [NASA-CASE-NPO-15342-1] c 60 N83-32342

DISTRIBUTION (PROPERTY)
 Thermionic energy converters
 [NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS
 High voltage distributor
 [NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES
 Jet exhaust noise suppressor
 [NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS
 Flow diverter valve and flow diversion method
 [NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS

A synchronous binary array divider
 [NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE
 File card marker Patent
 [NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)
 Airborne tracking Sun photometer apparatus and system
 [NASA-CASE-ARC-11622-1] c 44 N86-21982

DOORS
 Emergency escape system Patent
 [NASA-CASE-MSC-12086-1] c 05 N71-12345
 CAM controlled retractable door latch
 [NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPED CRYSTALS
 FET charge sensor and voltage probe
 [NASA-CASE-NPO-16045-1] c 76 N84-33211

DOPES
 Lithium counterdoped silicon solar cell
 [NASA-CASE-LEW-14177-1] c 44 N85-20535

DOPPLER EFFECT
 Doppler frequency spread correction device for multiplex transmissions
 [NASA-CASE-XGS-02749] c 07 N69-39978
 Laser Doppler system for measuring three dimensional vector velocity Patent
 [NASA-CASE-MFS-20386] c 21 N71-19212
 Doppler compensation by shifting transmitted object frequency within limits
 [NASA-CASE-GSC-10087-4] c 07 N73-20174
 Doppler shift system --- system for measuring velocities of radiating particles
 [NASA-CASE-HQN-10740-1] c 72 N74-19310
 Method and apparatus for Doppler frequency modulation of radiation
 [NASA-CASE-NPO-14524-1] c 32 N80-24510
 An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
 [NASA-CASE-NPO-14998-1] c 33 N81-15194
 Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
 [NASA-CASE-NPO-14998-1] c 32 N83-18975
 Vibration-free Raman Doppler velocimeter
 [NASA-CASE-LAR-13268-1] c 35 N85-29216

DOPPLER RADAR
 Cooperative Doppler radar system Patent
 [NASA-CASE-LAR-10403] c 21 N71-11766
 Doppler radar having phase modulation of both transmitted and reflected return signals
 [NASA-CASE-MSC-18675-1] c 32 N84-22820

DOSIMETERS
 Dosimeter for high levels of absorbed radiation Patent
 [NASA-CASE-XLA-03645] c 14 N71-20430
 Miniature spectrally selective dosimeter
 [NASA-CASE-LAR-12469-1] c 35 N83-21311

DRAG CHUTES
 Flexible wing deployment device Patent
 [NASA-CASE-XLA-01220] c 02 N70-41863
 Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
 [NASA-CASE-LAR-10776-1] c 02 N74-10034
 Extended moment arm anti-spin device
 [NASA-CASE-LAR-12979-1] c 05 N85-21147

DRAG MEASUREMENT
 Air frame drag balance Patent
 [NASA-CASE-XLA-00113] c 14 N70-33386
 Minimum induced drag airfoil body Patent
 [NASA-CASE-XLA-00755] c 01 N71-13410
 Minimum induced drag airfoil body Patent
 [NASA-CASE-XLA-05828] c 01 N71-13411
 Impact energy absorber Patent
 [NASA-CASE-XLA-01530] c 14 N71-23092
 System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
 [NASA-CASE-FRC-11024-1] c 02 N80-28300
 Skin friction measuring device for aircraft
 [NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
 Propeller blade loading control Patent
 [NASA-CASE-XAC-00139] c 02 N70-34856
 Aircraft wheel spray drag alleviator Patent
 [NASA-CASE-XLA-01583] c 02 N70-36825
 Leading edge vortex flaps for drag reduction --- during subsonic flight
 [NASA-CASE-LAR-12750-1] c 02 N81-19016
 Low-drag ground vehicle particularly suited for use in safely transporting livestock
 [NASA-CASE-FRC-11058-1] c 85 N82-33288
 Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
 [NASA-CASE-MFS-25946-1] c 20 N84-15183

Combined riblet and LEBU drag reduction system
 [NASA-CASE-LAR-13286-1] c 02 N85-28922
 Wingtip vortex propeller
 [NASA-CASE-LAR-13019-1] c 07 N85-35194

DRIFT (INSTRUMENTATION)
 Amplifier drift tester
 [NASA-CASE-XMS-05562-1] c 09 N69-39986
 Radiation direction detector including means for compensating for photocell aging Patent
 [NASA-CASE-XLA-00183] c 14 N70-40239
 Failure detection and control means for improved drift performance of a gimballed platform system
 [NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
 Sample collecting impact bit Patent
 [NASA-CASE-XNP-01412] c 15 N70-42034
 Hole cutter --- drill bits and rotating shaft
 [NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING
 Method for milling and drilling glass
 [NASA-CASE-GSC-12636-1] c 31 N83-27058

DRILLS
 Rock drill for recovering samples
 [NASA-CASE-XNP-07478] c 14 N69-21923
 Soil penetrometer
 [NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
 Transistor drive regulator Patent
 [NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
 Method of forming frozen spheres in a force-free drop tower
 [NASA-CASE-NPO-14845-1] c 27 N82-28442
 Sphere forming method and apparatus
 [NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
 Droplet monitoring probe
 [NASA-CASE-NPO-10985] c 14 N73-20478

DRUGS
 Automated analysis of oxidative metabolites
 [NASA-CASE-ARC-10469-1] c 25 N75-12086

DRYING
 Drying apparatus for photographic sheet material
 [NASA-CASE-GSC-11074-1] c 14 N73-28489
 Instrumentation for sensing moisture content of material using a transient thermal pulse
 [NASA-CASE-NPO-15494-1] c 35 N82-25484
 Cure-in-place composite fastener
 [NASA-CASE-LAR-12939-1] c 37 N86-20798

DRYING APPARATUS
 Gas purged dry box glove Patent
 [NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS
 Cam-operated pitch-change apparatus
 [NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY
 Composite seal for turbomachinery
 [NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS
 Duct coupling for single-handed operation Patent
 [NASA-CASE-MFS-20395] c 15 N71-24903
 Externally supported internally stabilized flexible duct joint
 [NASA-CASE-MFS-19194-1] c 37 N76-14460
 Apparatus for supplying conditioned air at a substantially constant temperature and humidity
 [NASA-CASE-GSC-12191-1] c 31 N80-32583

DURABILITY
 Belt for transmitting power from a cogged driving member to a cogged driven member
 [NASA-CASE-GSC-12289-1] c 37 N80-32717

DUST COLLECTORS
 Disk pack cleaning table Patent Application
 [NASA-CASE-LAR-10590-1] c 15 N70-26819
 Acoustic agglomeration methods and apparatus
 [NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
 Infrared tunable laser
 [NASA-CASE-ARC-10463-1] c 09 N73-32111
 Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
 [NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
 Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
 [NASA-CASE-XMF-02221] c 18 N71-27170
 Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
 [NASA-CASE-MFS-23250-1] c 35 N82-11432

DYNAMIC CHARACTERISTICS
 Dynamic sensor Patent
 [NASA-CASE-XAC-02877] c 14 N70-41681
 Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
 [NASA-CASE-ARC-10444-1] c 16 N73-33397

Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612

DYNAMIC CONTROL

Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

DYNAMIC LOADS

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411

DYNAMIC MODULUS OF ELASTICITY

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC RESPONSE

Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

DYNAMIC TESTS

Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

DYNAMOMETERS

Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARTH ATMOSPHERE

Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

EARTH CRUST

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

EARTH ORBITS

High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

EARTHQUAKES

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808

ECCENTRICS

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

ECHELETTE GRATINGS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

ECHOES

Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580

Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

EDDY CURRENTS

Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

EDGES

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

EFFICIENCY

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425

EFFLUENTS

Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

EGRESS

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

EJECTION

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

EJECTION SEATS

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

EJECTORS

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

ELASTIC BODIES

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

ELASTIC DEFORMATION

Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

ELASTIC MEDIA

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156

ELASTIC PROPERTIES

Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947

Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

ELASTIC SHEETS

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

ELASTOMERS

Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150

Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517

Polyimides containing ATBN elastomers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565

Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

ELBOW (ANATOMY)

Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666

ELECTRIC ARCS

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540

Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130

ELECTRIC AUTOMOBILES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ELECTRIC BATTERIES

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020

Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519

- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- ELECTRIC BRIDGES**
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- ELECTRIC CELLS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- ELECTRIC CHARGE**
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- ELECTRIC CHOPPERS**
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- ELECTRIC COILS**
- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- ELECTRIC CONDUCTORS**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- ELECTRIC CONNECTORS**
- Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
- Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494

- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- ELECTRIC CONTACTS**
- Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- ELECTRIC CONTROL**
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682
- ELECTRIC CURRENT**
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- ELECTRIC DISCHARGES**
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- ELECTRIC ENERGY STORAGE**
- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- ELECTRIC EQUIPMENT**
- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Solar energy powered heliotope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- ELECTRIC EQUIPMENT TESTS**
- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
- ELECTRIC FIELD STRENGTH**
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
- ELECTRIC FIELDS**
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- ELECTRIC FILTERS**
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- ELECTRIC FURNACES**
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- ELECTRIC FUSES**
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- ELECTRIC GENERATORS**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- ELECTRIC IGNITION**
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- ELECTRIC MOTOR VEHICLES**
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- ELECTRIC MOTORS**
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Detentling servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682
- ELECTRIC NETWORKS**
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- ELECTRIC POTENTIAL**
- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- ELECTRIC POWER**
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Inherent redundancy electric heater
[NASA-CASE-MFS-21482-1] c 33 N74-14935

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

ELECTRIC POWER TRANSMISSION

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

ELECTRIC TERMINALS

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

ELECTRIC WIRE

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330

Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297

ELECTRICAL ENGINEERING

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

ELECTRICAL FAULTS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

ELECTRICAL IMPEDANCE

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

ELECTRICAL MEASUREMENT

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- ELECTRICAL PROPERTIES**
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radiometric temperature reference Patent
[NASA-CASE-MS-C-13276-1] c 14 N71-27058
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- ELECTRICAL RESISTANCE**
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- ELECTRICAL RESISTIVITY**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MS-C-12662-1] c 33 N79-12331
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
- ELECTRICITY**
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425
- ELECTRO-OPTICS**
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Ultrastable calibrated light source
[NASA-CASE-MS-C-12293-1] c 14 N72-27411
- Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639
- ELECTROACOUSTIC TRANSDUCERS**
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- CDS solid state phase insensitive ultrasonic transducer --- annealing dladium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- ELECTROACOUSTIC WAVES**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- ELECTROCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-C-14339-1] c 05 N75-24716
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- ELECTROCATALYSTS**
- Electrocatalyst for oxygen reduction
[NASA-CASE-HON-10537-1] c 06 N72-10138
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- ELECTROCHEMICAL CELLS**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- ELECTROCHEMICAL MACHINING**
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- ELECTROCHEMICAL OXIDATION**
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- ELECTROCHEMISTRY**
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- ELECTRODE FILM BARRIERS**
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- ELECTRODEPOSITION**
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- ELECTRODES**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Compressible biomedical electrode
[NASA-CASE-MS-C-13648] c 05 N72-27103
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-C-14339-1] c 05 N75-24716

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

A spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N83-29325

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

ELECTRODIALYSIS
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLYSIS
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

ELECTROLYTES
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Compressible biomedical electrode
[NASA-CASE-MS-C-13648] c 05 N72-27103

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-C-12568-1] c 24 N76-14204

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-C-16394-1] c 28 N81-24280

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701

Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE
Sealed cabinetry Patent
[NASA-CASE-MS-C-12168-1] c 09 N71-18600

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Shielded conductor cable system
[NASA-CASE-MS-C-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Electro-explosive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

ELECTROMETERS

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

ELECTRON BEAM WELDING

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Image tube — deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850

Very high intensity light source using a cathode ray tube — electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LEW-12706-1] c 35 N84-12444

ELECTRON BOMBARDMENT

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

ELECTRON CAPTURE

Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

ELECTRON ENERGY

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-NPO-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701

ELECTRON IRRADIATION

Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON MICROSCOPY

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

ELECTRON PHOTON CASCADES

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA

Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SOURCES

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER

Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

ELECTRON TRANSITIONS

Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Gyrotion transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING

Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

ELECTRONIC CONTROL

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Electronic system for high power load control — solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTRONIC EQUIPMENT

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

ELECTRONIC EQUIPMENT TESTS

Analogue to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRONIC FILTERS

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918

Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in
SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Module failure isolation circuit for paralleled inverters
--- preventing system failure during power conditioning for
spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter
modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar
cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING

Electrical feed-through connection for printed circuit
boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of
encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and
method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Hermetically sealable package for hybrid solid-state
electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONIC RECORDING SYSTEMS

Propellant mass distribution metering apparatus
Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter
networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a
laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS

Means and method for calibrating a photon detector
utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

ELECTROPHORESIS

Electrophoretic sample insertion --- device for uniformly
distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the
substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and
electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum
electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoretic fractional elution apparatus employing
a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells --- suspended in
aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

ELECTROPHOTOMETERS

Method and device for detecting voids in low density
material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an
apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox
couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings --- for solar collector
heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC CHARGE

Electrostatic charged particle analyzer having deflection
members shaped according to the periodic voltage applied
thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system --- for
contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

ELECTROSTATIC ENGINES

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248

ELECTROSTATIC GENERATORS

Electrostatic plasma modulator for space vehicle
re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTROSTATIC PRECIPITATORS

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor --- microfiber size
determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES

Apparatus for field strength measurement of a space
vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING

Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS

Controllable high voltage source having fast settling
time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

ELECTROTHERMAL ENGINES

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat
exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425

ELEVATION

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Elevated waterproof access floor system and method
of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

ELEVATORS (LIFTS)

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Cable stabilizer for open shaft cable operated
elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOMETERS

Remote sensing of vegetation and soil using microwave
ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION

Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Electrophoretic fractional elution apparatus employing
a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMERGENCIES

Silent emergency alarm system for schools and the
like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

EMERGENCY BREATHING TECHNIQUES

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452

EMERGENCY LOCATOR TRANSMITTERS

Improved legislated emergency locating transmitters and
emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226

EMISSION SPECTRA

Spectral method for monitoring atmospheric
contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

EMITTERS

Coaxial inverted geometry transistor having buried
emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

EMULSIONS

Apparatus for obtaining isotropic irradiation of a
specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS

Refractory porcelain enamel passive control coating for
high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING

Bacteriostatic conformal coating and methods of
application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Flexible, repairable, pottable material for electrical
connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

ENCLOSURES

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

END EFFECTORS

Apparatus for adapting an end effector device remotely
controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

ENDOSCOPES

- Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

ENDOTHERMIC REACTIONS

- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

ENEMY PERSONNEL

- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

ENERGY ABSORPTION

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

ENERGY CONSERVATION

- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

ENERGY CONSUMPTION

- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

ENERGY CONVERSION

- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

ENERGY CONVERSION EFFICIENCY

- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913

ENERGY DISSIPATION

- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369

ENERGY DISTRIBUTION

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ENERGY GAPS (SOLID STATE)

- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251

- High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981

ENERGY LEVELS

- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ENERGY POLICY

- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

ENERGY SOURCES

- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096

ENERGY STORAGE

- Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

ENERGY TECHNOLOGY

- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

ENERGY TRANSFER

- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

ENGINE ANALYZERS

- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

ENGINE CONTROL

- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ENGINE COOLANTS

- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

ENGINE DESIGN

- Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

ENGINE FAILURE

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397

ENGINE INLETS

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

ENGINE MONITORING INSTRUMENTS

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ENGINE NOISE

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

ENGINE PARTS

- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- ENGINE STARTERS**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ENGINE TESTS**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ENGINEERING DRAWINGS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- ENTHALPY**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- ENTRAINMENT**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- ENUMERATION**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- ENVIRONMENT SIMULATION**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- ENVIRONMENT SIMULATORS**
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- ENVIRONMENTAL CONTROL**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- ENVIRONMENTAL ENGINEERING**
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
- ENVIRONMENTAL MONITORING**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- ENVIRONMENTAL TESTS**
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- ENVIRONMENTS**
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- ENZYME ACTIVITY**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- ENZYMES**
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- EPICYCLOIDS**
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- EPITAXY**
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Method of making macrocrystalline or single crystal semiconductor material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906
- EPOXY COMPOUNDS**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- EPOXY MATRIX COMPOSITES**
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
- EPOXY RESINS**
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Metal (2) 4,4',4',4' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686
- EQUATIONS OF MOTION**
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- EQUIPMENT**
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982
- EQUIPMENT SPECIFICATIONS**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

- Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- EQUIPOTENTIALS**
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- ERGOMETERS**
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- EROSION**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- ERROR ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- ERROR CORRECTING CODES**
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
- Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680
- ERROR CORRECTING DEVICES**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- ERROR DETECTION CODES**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

ERROR SIGNALS

- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MS-C-12743-1] c 32 N79-10263
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N85-20247
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

ERRORS

- Analog-to-digital converter
[NASA-CASE-MS-C-13110-1] c 08 N72-22163

ESCAPE CAPSULES

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859

ESCAPE SYSTEMS

- Emergency escape system Patent
[NASA-CASE-MS-C-12086-1] c 05 N71-12345
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

ESCHERICHIA

- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS

- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

ETCHING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

ETHANE

- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ETHERS

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

ETHYL COMPOUNDS

- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747

ETHYLENE OXIDE

- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EVACUATING (VACUUM)

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

EVAPORATIVE COOLING

- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

EVAPORATORS

- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Multi-leg heat pipe evaporator
[NASA-CASE-MS-C-20812-1] c 34 N84-32748

EXAMINATION

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250

EXCITATION

- Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265

EXCLUSION

- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION

- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES

- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
- Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
- Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N86-20803

EXPANSION

- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

EXPERIMENT DESIGN

- Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPIRED AIR

- Metabolic rate meter and method
[NASA-CASE-MS-C-12239-1] c 52 N79-21750

EXPLOSIONS

- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- Pressure limiting propellant actuating system
[NASA-CASE-MS-C-18179-1] c 20 N80-18097
- EXPLOSIVE FORMING**
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- Tool and process for explosive joining of tubes
[NASA-CASE-LAR-13309-1] c 37 N86-21858

EXPLOSIVE WELDING

- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
- [NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
- [NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
- [NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for explosive joining of tubes
- [NASA-CASE-LAR-13309-1] c 37 N86-21858

EXPLOSIVES

- Synthesis of superconducting compounds by explosive compaction of powders
- [NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
- [NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
- [NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS

- Digital quasi-exponential function generator
- [NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE

- Exposure interlock for oscilloscope cameras
- [NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
- [NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
- [NASA-CASE-LAR-12602-1] c 39 N83-32081

EXPULSION

- Electro-expulsive separation system
- [NASA-CASE-ARC-11613-1] c 33 N85-29150

EXPULSION BLADDERS

- Expulsion bladder-equipped storage tank structure
- Patent
- [NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS

- Extensible cable support Patent
- [NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS

- Extensometer frame
- [NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
- [NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
- [NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
- [NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
- [NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES

- Hot gas engine with dual crankshafts
- [NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION

- Remote pivot decoupler pylon: Wing/store suppression
- [NASA-CASE-LAR-13173-1] c 05 N85-19981
Slide release mechanism --- for space shuttle orbiter/external tank connection device
- [NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTERNAL STORES

- Decoupler pylon: wing/store flutter suppressor
- [NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS

- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
- [NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
- [NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION

- Liquid-gas separation system Patent
- [NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
- [NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
- [NASA-CASE-NPO-15210-1] c 25 N84-22709

EXTRAVEHICULAR ACTIVITY

- Portable environmental control system Patent
- [NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
- [NASA-CASE-XMS-05304] c 05 N71-12336
Serpentuator Patent
- [NASA-CASE-XMF-05344] c 31 N71-16345
Fastener apparatus Patent
- [NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
- [NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
- [NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
- [NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
- [NASA-CASE-MSC-18223-2] c 54 N84-11758

EXTREMELY LOW RADIO FREQUENCIES

- VHF/UHF parasitic probe antenna Patent
- [NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING

- Extrusion can
- [NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
- [NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
- [NASA-CASE-NPO-13758-2] c 31 N81-15154

EYE (ANATOMY)

- Sight switch using an infrared source and sensor
- Patent
- [NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
- [NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
- [NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
- [NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
- [NASA-CASE-LAR-12251-1] c 74 N80-27185
Photorefractor ocular screening system
- [NASA-CASE-MFS-26011-1SB] c 52 N85-20639

EYE DISEASES

- Photorefractor ocular screening system
- [NASA-CASE-MFS-26011-1SB] c 52 N85-20639

EYE EXAMINATIONS

- Visual examination apparatus
- [NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
- [NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
- [US-PATENT-RE-28,921] c 52 N76-30793

EYEPIECES

- Wide angle long eye relief eyepiece Patent
- [NASA-CASE-XMS-06056-1] c 23 N71-24857

F**FABRICATION**

- Pressure variable capacitor
- [NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
- [NASA-CASE-XLE-00150] c 28 N70-41818
Solar cell submodule Patent
- [NASA-CASE-XNP-05821] c 03 N71-11056
Capacitor and method of making same Patent
- [NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
- [NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a root cord restrained convolute section
- [NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
- [NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
- [NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
- [NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
- [NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
- [NASA-CASE-MSC-14331-3] c 27 N78-32262
Solar array strip and a method for forming the same
- [NASA-CASE-NPO-13652-1] c 44 N79-17314
Method for fabricating solar cells having integrated collector grits
- [NASA-CASE-LEW-12819-2] c 44 N79-18444
Bonding machine for forming a solar array strip
- [NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
- [NASA-CASE-NPO-13652-3] c 44 N80-14474
Induced junction solar cell and method of fabrication
- [NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
- [NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
- [NASA-CASE-LEW-12441-3] c 44 N81-24519
Photoelectric detection system --- manufacturing automation
- [NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of Fabricating Schottky Barrier solar cell
- [NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
- [NASA-CASE-LEW-13171-1] c 44 N82-29708

- Method of making a high voltage V-groove solar cell
- [NASA-CASE-LEW-13401-1] c 44 N82-29709
X-ray imaging mirror system and method of producing the same
- [NASA-CASE-NPO-15828-1] c 74 N83-30222
Advanced inorganic separators for alkaline batteries and method of making the same
- [NASA-CASE-LEW-13171-2] c 44 N83-32176
Resonant isolator for maser amplifier
- [NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
- [NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
- [NASA-CASE-LEW-13349-1] c 26 N84-22734
High resistance and raised modulus carbon fibers
- [NASA-TM-76884] c 24 N85-25436
GaAs Schottky barrier photo-responsive device and method of fabrication
- [NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
- [NASA-CASE-GSC-12956-1] c 35 N86-20754

FABRICS

- Method of forming a root cord restrained convolute section
- [NASA-CASE-MSC-12398] c 05 N72-20098
Amplifying ribbon extensometer
- [NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handmeter for measuring handle
- [NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
- [NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
- [NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
- [NASA-CASE-ARC-11310-1] c 27 N82-24339
Absorbent product to absorb fluids --- for collection of human wastes
- [NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
- [NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
- [NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
- [NASA-CASE-LAR-12894-1] c 27 N85-20125

FABRY-PEROT INTERFEROMETERS

- Retrodirective optical system
- [NASA-CASE-XGS-04480] c 16 N69-27491

FACSIMILE COMMUNICATION

- Facsimile video remodulation network
- [NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
- [NASA-CASE-LAR-11207-1] c 35 N75-19613

FACTORIAL DESIGN

- Space suit pressure stabilizer Patent
- [NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
- [NASA-CASE-LAR-10007-1] c 05 N71-11195

FAIL-SAFE SYSTEMS

- Failsafe multiple transformer circuit configuration
- [NASA-CASE-NPO-11078] c 09 N72-25262
Latch mechanism
- [NASA-CASE-MSC-12549-1] c 37 N74-27903
Safety flywheel --- using flexible materials energy storage
- [NASA-CASE-HQN-10888-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
- [NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
- [NASA-CASE-LEW-12907-2] c 07 N81-19115
Reconfiguring redundancy management
- [NASA-CASE-MSC-18498-1] c 60 N82-29013

FAILURE ANALYSIS

- Fatigue failure load indicator
- [NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
- [NASA-CASE-NPO-15696-1] c 33 N85-34333

FAILURE MODES

- High speed rolling element bearing
- [NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
- [NASA-CASE-NPO-13160-1] c 35 N74-18090

FAIRINGS

- Method and system for ejecting fairing sections from a rocket vehicle
- [NASA-CASE-GSC-10590-1] c 31 N73-14853

- Low-drag ground vehicle particularly suited for use in safety transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- FALLING SPHERES**
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- FAR INFRARED RADIATION**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779
- FAR ULTRAVIOLET RADIATION**
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- FARADAY EFFECT**
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- FAST FOURIER TRANSFORMATIONS**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- FASTENERS**
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805
- FATIGUE (MATERIALS)**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- FATIGUE TESTS**
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- FATS**
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- FECES**
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- FEED SYSTEMS**
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- FEEDBACK**
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- FEEDBACK AMPLIFIERS**
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- FEEDBACK CONTROL**
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-15558-1-CU] c 74 N86-20129
- FEEDBACK FREQUENCY MODULATION**
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- FEEDERS**
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- FEET (ANATOMY)**
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- FELTS**
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- FEMALES**
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- FERMENTATION**
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- FERRITES**
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- FERROFLUIDS**
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- FERRIMAGNETIC MATERIALS**
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- FERRIMAGNETIC RESONANCE**
Ferromagnetic regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
- FERRIMAGNETISM**
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- FIBER COMPOSITES**
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- FIBER OPTICS**
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Apparatus for fiber optic liquid level sensing
[NASA-CASE-MS-C-18674-1] c 74 N81-24907
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129

FIBER REINFORCED COMPOSITES
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

FIELD EFFECT TRANSISTORS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

FIELD EMISSION
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149

FIELD OF VIEW
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

FILAMENT WINDING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

FILAMENTS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

FILLERS
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

FILTERS

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

FILTRATION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

FINS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Fire resistant polymers based on 1-(diorgano oxyphosphoryl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362

FIREPROOFING
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Flexible fire retardant foam
[NASA-CASE-ARC-10180-1] c 28 N72-20767
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MS-C-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MS-C-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTINGS
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Tube coupling device
[NASA-CASE-MFS-25964-1] c 37 N85-20378
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603

FIXED WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- FLAME PROBES**
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- FLAME RETARDANTS**
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
The 1 - (dialkoxyposphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Phosphorus-containing imide resins
[NASA-CASE-LAR-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
Fire resistant polymers based on 1-((dialkoxyposphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
The 1-(diorganoxyphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- FLAME SPRAYING**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- FLAME TEMPERATURE**
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- FLAMES**
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- FLAMMABILITY**
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Violet process for producing flame resistant polyimides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Fire resistant polymers based on 1-((dialkoxyposphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
- FLANGES**
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- FLAPS (CONTROL SURFACES)**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- FLARED BODIES**
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- FLASH LAMPS**
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- FLAT CONDUCTORS**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- FLAT PLATES**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- FLEXIBILITY**
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806
- FLEXIBLE BODIES**
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- FLEXIBLE WINGS**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- FLEXING**
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- FLIGHT**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- FLIGHT ALTITUDE**
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- FLIGHT CLOTHING**
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- FLIGHT CONTROL**
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
- FLIGHT CREWS**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- FLIGHT INSTRUMENTS**
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- FLIGHT RECORDERS**
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- FLIGHT SAFETY**
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- FLIGHT SIMULATION**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- FLIGHT SIMULATORS**
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280

Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221

Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N85-29219

FLOW CHARACTERISTICS
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTRIBUTION

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867

Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257

Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N85-29216

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213

Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462

Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

FLOW RESISTANCE
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447

System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FLOW VISUALIZATION
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

FLOWMETERS
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994

Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

- Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- FLUID AMPLIFIERS**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- FLUID DYNAMICS**
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- FLUID FILLED SHELLS**
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- FLUID FILMS**
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- FLUID FILTERS**
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- FLUID FLOW**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- FLUID INJECTION**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- FLUID JETS**
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
- FLUID LOGIC**
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- FLUID MECHANICS**
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- FLUID POWER**
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- FLUID PRESSURE**
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- FLUID ROTOR GYROSCOPES**
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- FLUID SWITCHING ELEMENTS**
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- FLUID TRANSMISSION LINES**
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- FLUIDIC CIRCUITS**
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- FLUIDICS**
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- FLUIDIZED BED PROCESSORS**
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- FLUIDS**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- FLUORESCENCE**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- FLUORIDES**
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

FLUORINATION

- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- FLUORINE**
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- FLUORINE COMPOUNDS**
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- FLUORO COMPOUNDS**
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- FLUOROCARBONS**
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- FLUOROPOLYMERS**
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- FLUTTER**
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
- FLUTTER ANALYSIS**
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- FLUX (RATE)**
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- FLUX DENSITY**
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- FLUXES**
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- FLYWHEELS**
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

FOAMS

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

FOCI

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING

- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

FOG

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

FOILS (MATERIALS)

- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

FOLDING

- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES

- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
- Folding structure fabricated of rigid panels
[NASA-CASE-XHO-02146] c 18 N75-27040
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
- Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
- Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MSC-20635-1] c 18 N84-32424
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
- FOOD**
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- FOOTPRINTS**
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- FORCE**
Ferrolfluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
- FORCE DISTRIBUTION**
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- FORCED VIBRATION**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- FOREBODIES**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- FORMALDEHYDE**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- FORMAT**
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- FORMATES**
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- FORMING TECHNIQUES**
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- FOSSIL FUELS**
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- FOUNDATIONS**
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Adjustable securing base
[NASA-CASE-MS-C-19666-1] c 37 N78-17383
- FOURIER TRANSFORMATION**
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- FRACTIONATION**
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- A spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N83-29325
- FRACTURE MECHANICS**
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- FRACTURE STRENGTH**
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- FRAMES**
Articulated multiple couch assembly Patent
[NASA-CASE-MS-C-11253] c 05 N71-12343
- Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- FRAMING CAMERAS**
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- FREE FLIGHT TEST APPARATUS**
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00938] c 11 N71-15926
- FREE FLOW**
Solid sorbent air sampler
[NASA-CASE-MS-C-20653-1] c 35 N85-20301
- FREE WING AIRCRAFT**
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- FREEZE DRYING**
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096
- FREEZING**
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- FREON**
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- FREQUENCIES**
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
- FREQUENCY ANALYZERS**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- FREQUENCY CONTROL**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Digital numerically controlled oscillator
[NASA-CASE-MS-C-16747-1] c 33 N81-17349
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- FREQUENCY CONVERTERS**
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Family of frequency to amplitude converters
[NASA-CASE-MS-C-12395] c 09 N72-25257
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- FREQUENCY DISCRIMINATORS**
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
- FREQUENCY DISTRIBUTION**
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- FREQUENCY DIVIDERS**
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- FREQUENCY DIVISION MULTIPLEXING**
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- FREQUENCY MEASUREMENT**
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MS-C-14649-1] c 33 N76-16331
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- FREQUENCY MODULATION**
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- FREQUENCY MULTIPLIERS**
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Open loop digital frequency multiplier
[NASA-CASE-MS-C-12709-1] c 33 N77-24375
- FREQUENCY RANGES**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- FREQUENCY SCANNING**
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321

FREQUENCY SHIFT KEYING

- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

FREQUENCY STABILITY

- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331

FREQUENCY STANDARDS

- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

FREQUENCY SYNCHRONIZATION

- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS

- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION

- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

FRICTION DRAG

- Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922

FRICTION FACTOR

- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Unidirectional flexural pivot
[NASA-CASE-GSC-11893-1] c 37 N84-12492

FRICTION MEASUREMENT

- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610

FRICTION REDUCTION

- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383

FRICTIONLESS ENVIRONMENTS

- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

FROST

- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018

FUEL CAPSULES

- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

FUEL CELL POWER PLANTS

- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL CELLS

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL COMBUSTION

- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL CONSUMPTION

- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL CONTROL

- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL FLOW

- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

FUEL FLOW REGULATORS

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL GAGES

- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION

- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL OILS

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL PUMPS

- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

FUEL SYSTEMS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL TANK PRESSURIZATION

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

FUEL TANKS

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

FUEL VALVES

- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

FUEL-AIR RATIO

- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS

- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

FURLABLE ANTENNAS

- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

FURNACES

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

FUSELAGES

- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

FUSION (MELTING)

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

G

GADOLINIUM

- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

GALILEO PROJECT

- Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680

GALLIUM

- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES

- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192

- Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

GALVANIC SKIN RESPONSE

- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

GAMMA RAY SPECTROMETERS

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS

- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

GANTRY CRANES

- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

GAPS

- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

GARMENTS

- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS

- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- GAS BAGS**
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS

- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

GAS CHROMATOGRAPHY

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

GAS COMPOSITION

- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

GAS COOLED REACTORS

- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY

- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

GAS DETECTORS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733

Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393

Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

GAS DISCHARGE TUBES

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778

GAS EVOLUTION

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

GAS FLOW

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227

Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

GAS GENERATORS

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704

Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING

Bi-metallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

GAS IONIZATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

GAS JETS

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441

Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596

GAS LUBRICANTS

Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897

Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES

Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253

GAS PIPES

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

GAS PRESSURE

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TURBINE ENGINES

Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- GAS TURBINES**
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- GAS VALVES**
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- GAS WELDING**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- GAS-LIQUID INTERACTIONS**
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- GAS-METAL INTERACTIONS**
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- GASDYNAMIC LASERS**
- Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- GASEOUS DIFFUSION**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- GASEOUS FISSION REACTORS**
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GASEOUS ROCKET PROPELLANTS**
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- GASES**
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Water separator
[NASA-CASE-MXS-01295-1] c 37 N79-21345
- GASIFICATION**
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- GASKETS**
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- GATES (CIRCUITS)**
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211
- GATES (OPENINGS)**
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- GAW-1 AIRFOIL**
- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- GEAR TEETH**
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- GEARS**
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- GELLED ROCKET PROPELLANTS**
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- GELS**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- GENERAL AVIATION AIRCRAFT**
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- GENERATORS**
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- GEODESY**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- GEODETIC SURVEYS**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- GEODIMETERS**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- GEOLOGICAL SURVEYS**
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- GEOMETRY**
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- GERMANIUM**
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- GIMBALS**
- Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MS-C-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

GLASS COATINGS
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-16934-3] c 24 N84-16262
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MS-C-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MS-C-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MS-C-20261-1] c 54 N84-28484

GLOW DISCHARGES
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-C-20497-1] c 34 N85-29180

GROUND EFFECT MACHINES

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING

- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATIONS

- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT

- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Controlled release device Patent
[NASA-CASE-KSC-03338] c 15 N71-24043
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND-AIR-GROUND COMMUNICATION

- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT

- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUARDS (SHIELDS)

- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

GUIDANCE (MOTION)

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

GUIDANCE SENSORS

- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS

- Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES

- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS

- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS

- Passive dual spin misalignment compensators --- gyro-stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
- Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HAFNIUM

- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES

- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- The 1 - (dialkoxyposphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

HALL EFFECT

- Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS

- Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS

- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)

- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLING EQUIPMENT

- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)

- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS

- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATORS

- Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES

- Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
- Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES

- Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345

HEAD-UP DISPLAYS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART FUNCTION

- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE

- Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

HEAT

- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

HEAT MEASUREMENT
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-14081-1] c 35 N74-27860

HEAT OF VAPORIZATION
Pumped two-phase heat transfer loop
[NASA-CASE-MS-20841-1] c 34 N86-20721

HEAT PIPES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MS-20812-1] c 34 N84-32748
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

HEAT PUMPS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

HEAT RADIATORS
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Radiator deployment actuator Patent
[NASA-CASE-MS-11817-1] c 15 N71-26611
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

HEAT RESISTANT ALLOYS
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

HEAT SHIELDING
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Spacecraft Patent
[NASA-CASE-MS-13047-1] c 31 N71-25434
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-12109] c 18 N71-26285
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-12619-2] c 27 N79-12221
Thermal insulation protection means
[NASA-CASE-MS-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MS-16973-1] c 37 N81-14317
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-18134-1] c 37 N81-15363
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MS-18832-1] c 27 N83-18908
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Aerobraking orbital transfer vehicle
[NASA-CASE-MS-20921-1] c 18 N86-20471

HEAT SINKS
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

HEAT SOURCES
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-25707-1] c 35 N85-29214

HEAT STORAGE
Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

HEAT TRANSFER
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-12389] c 33 N71-29052
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-20497-1] c 34 N85-29180
Pumped two-phase heat transfer loop
[NASA-CASE-MS-20841-1] c 34 N86-20721

HEAT TRANSMISSION
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- HEAT TREATMENT**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- HEATERS**
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- HEATING**
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- HEATING EQUIPMENT**
- Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Self-cycling fluid heater
[NASA-CASE-MS-C-15567-1] c 33 N73-16918
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- HEIGHT**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- HELICAL ANTENNAS**
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- HELICOPTER WAKES**
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- HELICOPTERS**
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- HELIOSTATS**
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- HELIUM**
- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- HELIUM HYDROGEN ATMOSPHERES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- HELIUM IONS**
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- HELIUM-NEON LASERS**
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- HELMETS**
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Emergency space-suit helmet
[NASA-CASE-MS-C-10954-1] c 54 N78-18761
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- HELMHOLTZ RESONATORS**
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- HEMISPHERICAL SHELLS**
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- HERMETIC SEALS**
- Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- Traveling sealer for contoured table
[NASA-CASE-XLA-01494] c 15 N71-24164
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Hermetic sealed vibration damper Patent
[NASA-CASE-MS-C-10959] c 15 N71-26243
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-C-20181-1] c 33 N82-28549
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
- HEXAGONS**
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- HEXAMETHYLENETETRAMINE**
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- HEXOKINASE**
- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
- HIGH ACCELERATION**
- Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- HIGH ALTITUDE**
- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- HIGH ALTITUDE BALLOONS**
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- HIGH ALTITUDE ENVIRONMENTS**
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- HIGH ASPECT RATIO**
- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- HIGH FREQUENCIES**
- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- HIGH GAIN**
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- HIGH PASS FILTERS**
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- HIGH POLYMERS**
- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- HIGH POWER LASERS**
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
- HIGH PRESSURE**
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- High pressure air valve Patent
[NASA-CASE-MS-C-11010] c 15 N71-19485

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

HIGH RESOLUTION

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

HIGH SPEED

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

HIGH SPEED CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

HIGH STRENGTH ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535

Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

HIGH STRENGTH STEELS

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

HIGH TEMPERATURE

High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352

Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805

Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

HIGH TEMPERATURE AIR

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HIGH TEMPERATURE ENVIRONMENTS

High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365

Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

HIGH TEMPERATURE FLUIDS

Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918

High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203

HIGH TEMPERATURE GASES

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

HIGH TEMPERATURE LUBRICANTS

Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

HIGH TEMPERATURE PLASMAS

Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

HIGH TEMPERATURE PROPELLANTS

Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

HIGH TEMPERATURE RESEARCH

Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568

Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

HIGH TEMPERATURE TESTS

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

HIGH VACUUM

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

HIGH VACUUM ORBITAL SIMULATOR

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

HIGH VOLTAGES

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

HIGHWAYS

Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

HINGES

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

HISTOGRAMS

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

HOLDERS

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- HOLE DISTRIBUTION (MECHANICS)**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- HOLE MOBILITY**
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- HOLLOW**
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- HOLLOW CATHODES**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- HOLOGRAPHIC INTERFEROMETRY**
Interferometric image monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- HOLOGRAPHY**
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
- HOMING DEVICES**
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- HONEYCOMB CORES**
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
- HONEYCOMB STRUCTURES**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- HOOKS**
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156
- HORIZON SCANNERS**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Multi-lobe scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- HORIZONTAL SPACECRAFT LANDING**
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- HORIZONTAL TAIL SURFACES**
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- HORN ANTENNAS**
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
- Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- HOSES**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807
- HOT CATHODES**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- HOT PRESSING**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- HOT WORKING**
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- HOT-WIRE ANEMOMETERS**
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- HOT-WIRE FLOWMETERS**
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- HOUSINGS**
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
- Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
- HOVERING**
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- HUBBLE SPACE TELESCOPE**
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- HUBS**
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- HUGONIOT EQUATION OF STATE**
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
- HULLS (STRUCTURES)**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HUMAN BEINGS**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- HUMAN BODY**
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

HUMAN FACTORS ENGINEERING

- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Extravehicular tunnel suit system Patent
[NASA-CASE-MS-C-12243-1] c 05 N71-24728
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-C-18381-1] c 52 N81-28740
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
- HUMAN PERFORMANCE**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- HUMAN REACTIONS**
Reaction tester
[NASA-CASE-MS-C-13604-1] c 05 N73-13114
- HUMAN WASTES**
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MS-C-18223-1] c 24 N82-29362
- Absorbent product and articles made therefrom
[NASA-CASE-MS-C-18223-2] c 54 N84-11758
- HUMIDITY**
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- HUMIDITY MEASUREMENT**
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755
- HYBRID CIRCUITS**
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-C-20181-1] c 33 N82-28549
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- HYBRID COMPUTERS**
Adaptive voting computer system
[NASA-CASE-MS-C-13932-1] c 62 N74-14920
- HYBRID PROPELLANTS**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- HYDRAULIC CONTROL**
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- HYDRAULIC EQUIPMENT**
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MS-C-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- Gas-to-hydraulic power converter
[NASA-CASE-MS-C-18794-1] c 44 N83-14693
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452
- HYDRAULIC FLUIDS**
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- HYDRAULIC JETS**
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
- HYDRAZINE ENGINES**
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- HYDRAZINE NITROFORM**
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HYDRAZINES**
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDRIDES**
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084
- HYDROCARBON COMBUSTION**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- HYDROCARBON FUEL PRODUCTION**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- HYDROCARBON FUELS**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912
- HYDROCARBONS**
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- HYDROCHLORIC ACID**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- HYDROCHLORIDES**
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- HYDRODYNAMICS**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- HYDROFOILS**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HYDROFORMING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HYDROGEN**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MS-C-13335-1] c 06 N72-31140
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- HYDROGEN ATOMS**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- HYDROGEN EMBRITTLEMENT**
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDROGEN ENGINES**
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- HYDROGEN FUELS**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912
- HYDROGEN IONS**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

HYDROGEN OXYGEN FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cell

Patent

[NASA-CASE-XLE-04526] c 03 N71-11052

Passively regulated water electrolysis rocket engine

Patent

[NASA-CASE-XGS-08729] c 28 N71-14044

HYDROGEN PEROXIDE

Decomposition unit Patent

[NASA-CASE-XMS-00583] c 28 N70-38504

HYDROGEN PRODUCTION

Start up system for hydrogen generator used with an

internal combustion engine

[NASA-CASE-NPO-13849-1] c 28 N80-10374

Thermochemical generation of hydrogen

[NASA-CASE-NPO-15015-1] c 25 N82-28368

HYDROGENATION

Production of high purity silicon carbide Patent

[NASA-CASE-XLA-00158] c 26 N70-36805

Compact hydrogenator

[NASA-CASE-NPO-11682-1] c 35 N74-15127

Fire resistant polymers based on 1-(diorgano

oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes

[NASA-CASE-ARC-11512-2] c 27 N85-21362

HYDROLOGY

Radar target for remotely sensing hydrological

phenomena

[NASA-CASE-LAR-12344-1] c 43 N80-18498

HYDROLYSIS

Hydrodesulfurization of chlorinated coal

[NASA-CASE-NPO-15304-1] c 25 N83-31743

HYDROSTATIC PRESSURE

Method and apparatus for simulating gravitational forces

on a living organism

[NASA-CASE-MS-C-20202-1] c 54 N84-16803

HYDROSTATICS

Hydrostatic bearing support

[NASA-CASE-LEW-11158-1] c 37 N77-28486

HYDROXIDES

Method for determining presence of OH in magnesium

oxide

[NASA-CASE-NPO-10774] c 06 N72-17095

Separator for alkaline electric batteries and method of

making

[NASA-CASE-GSC-10018-1] c 44 N82-24644

Synthesis of dawsonites --- for use in fire extinguishing

operations

[NASA-CASE-ARC-11326-1] c 25 N83-33977

HYDROXYL COMPOUNDS

Synthesis of polyformals

[NASA-CASE-ARC-11244-1] c 23 N82-16174

HYGIENE

Urine collection apparatus --- feminine hygiene

[NASA-CASE-MS-C-18381-1] c 52 N81-28740

HYGROMETERS

Polymeric electrolytic hygrometer

[NASA-CASE-NPO-13948-1] c 35 N78-25391

Trace water sensor

[NASA-CASE-NPO-15722-1] c 35 N85-29212

HYGROSCOPICITY

Method of evaluating moisture barrier properties of

encapsulating materials Patent

[NASA-CASE-NPO-10051] c 18 N71-24934

HYPERFINE STRUCTURE

Process for producing dispersion strengthened nickel

with aluminum Patent

[NASA-CASE-XLE-06969] c 17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS

Apparatus for igniting solid propellants Patent

[NASA-CASE-XLE-00207] c 28 N70-33375

Small rocket engine Patent

[NASA-CASE-XLE-00685] c 28 N70-41992

Method of igniting solid propellants Patent

[NASA-CASE-XLE-01988] c 27 N71-15634

HYPERSONIC AIRCRAFT

Multistage aerospace craft --- perspective drawings of

conceptual design

[NASA-CASE-XMF-02263] c 05 N74-10907

HYPERSONIC FLIGHT

Hyperonic airbreathing missile

[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW

Hyperonic test facility Patent

[NASA-CASE-XLA-05378] c 11 N71-21475

HYPERSONIC SPEED

Reentry vehicle leading edge Patent

[NASA-CASE-XLA-00165] c 31 N70-33242

Landing arrangement for aerospace vehicle Patent

[NASA-CASE-XLA-00805] c 31 N70-38010

Variable geometry manned orbital vehicle Patent

[NASA-CASE-XLA-03691] c 31 N71-15674

High speed flight vehicle control Patent

[NASA-CASE-XLA-08967] c 02 N71-27088

Apparatus and method for generating large mass flow

of high temperature air at hypersonic speeds

[NASA-CASE-LAR-10578-1] c 12 N73-25262

Apparatus and method for generating large mass flow

of high temperature air at hypersonic speeds

[NASA-CASE-LAR-10612-1] c 12 N73-28144

HYPERSONIC VEHICLES

Techniques for insulating cryogenic fuel containers

Patent

[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS

Sound shield

[NASA-CASE-LAR-12683-1] c 71 N83-17235

HYPERTHERMIA

Hypertermia heating apparatus --- cancer therapy

[NASA-CASE-NPO-14549-2] c 52 N82-33996

HYPERVELOCITY GUNS

Dust particle injector for hypervelocity accelerators

Patent

[NASA-CASE-XGS-06628] c 24 N71-16213

Hypervelocity gun Patent

[NASA-CASE-XAC-05902] c 11 N71-18578

Collapsible pistons

[NASA-CASE-MS-C-13789-1] c 11 N73-32152

Hypervelocity gun --- using both electric and chemical

energy for projectile propulsion

[NASA-CASE-XLE-03186-1] c 09 N79-21084

HYPERVELOCITY IMPACT

Method of and device for determining the characteristics

and flux distribution of micrometeorites --- scanning

puncture holes in sheet material with photoelectric cell

[NASA-CASE-NPO-12127-1] c 91 N74-13130

HYPERVELOCITY PROJECTILES

Impact measuring technique

[NASA-CASE-LAR-10913] c 14 N72-16282

Multiple image storing system for high speed projectile

holography

[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS

Hypersonic test facility Patent

[NASA-CASE-XLA-00378] c 11 N71-15925

Hypersonic test facility Patent

[NASA-CASE-XLA-05378] c 11 N71-21475

HYSTERESIS

Bellevue spring assembly with elastic guides

[NASA-CASE-XNP-09452] c 15 N69-27504

IDENTIFYING

Lightning discharge identification system

[NASA-CASE-KSC-11099-1] c 47 N82-24779

IGNITERS

Solid propellant rocket motor

[NASA-CASE-NPO-11559] c 28 N73-24784

Remote fire stack igniter --- with solenoid-controlled

valve

[NASA-CASE-MFS-21675-1] c 25 N74-33378

Molded composite pyrogen igniter for rocket motors ---

solid propellant ignition

[NASA-CASE-LAR-12018-1] c 20 N78-24275

Plasma igniter for internal combustion engine

[NASA-CASE-NPO-13828-1] c 37 N79-11405

Hollow cathode apparatus

[NASA-CASE-NPO-15560-1] c 33 N85-21491

Low gravity exothermic heating/cooling apparatus

[NASA-CASE-MS-C-25707-1] c 35 N85-29214

IGNITION

Magnetically controlled plasma accelerator Patent

[NASA-CASE-XLA-00327] c 25 N71-29184

Device and method for frictionally testing materials for

ignitability

[NASA-CASE-MS-C-20622-1] c 25 N86-19413

IGNITION LIMITS

High voltage pulse generator Patent

[NASA-CASE-MS-C-12178-1] c 09 N71-13518

IGNITION SYSTEMS

Apparatus for igniting solid propellants Patent

[NASA-CASE-XLE-00207] c 28 N70-33375

Ignition system for monopropellant combustion devices

Patent

[NASA-CASE-XNP-00249] c 28 N70-38249

Rocket motor system Patent

[NASA-CASE-XLE-00323] c 28 N70-38505

Ignition means for monopropellant Patent

[NASA-CASE-XNP-00876] c 28 N70-41311

Sustained arc ignition system

[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE

Autoignition test cell Patent

[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATORS

Image magnification adapter for cameras Patent

[NASA-CASE-XMF-03844-1] c 14 N71-26474

Illumination system including a virtual light source

Patent

[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE CONTRAST

Video signal enhancement system with dynamic range

compression and modulation index expansion Patent

[NASA-CASE-NPO-10343] c 07 N71-27341

Method and apparatus for producing an image from a

transparent object

[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS

Deep trap, laser activated image converting system

[NASA-CASE-NPO-13131-1] c 36 N75-19652

Resistive anode image converter

[NASA-CASE-HQN-10876-1] c 33 N76-27473

Wedge immersed thermistor bolometers

[NASA-CASE-XGS-01245-1] c 35 N79-33449

Photocapacitive image converter

[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS

Multiple hologram recording and readout system

Patent

[NASA-CASE-ERC-10151] c 16 N71-29131

Automatic focus control for facsimile cameras

[NASA-CASE-HQN-11213-1] c 35 N75-15014

Azimuth correlator for real-time synthetic aperture radar

image processing

[NASA-CASE-NPO-14019-1] c 32 N79-14268

An electro-optical Doppler tracker means and method

for optical correlation of synthetic aperture radar data

[NASA-CASE-NPO-14998-1] c 33 N81-15194

Servomechanism for Doppler shift compensation in

optical correlator for synthetic aperture radar

[NASA-CASE-NPO-14998-1] c 32 N83-18975

Optical stereo video signal processor

[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES

Apparatus for calibrating an image dissector tube

[NASA-CASE-MFS-22208-1] c 33 N75-26244

Electronic optical transfer function analyzer

[NASA-CASE-MFS-21872-1] c 74 N76-19935

IMAGE ENHANCEMENT

Method and means for an improved electron beam

scanning system Patent

[NASA-CASE-ERC-10552] c 09 N71-12539

Physical correction filter for improving the optical quality

of an image

[NASA-CASE-HQN-10542-1] c 74 N75-25706

Method of obtaining intensified image from developed

photographic films and plates

[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE FILTERS

Motion picture camera for optical pyrometry Patent

[NASA-CASE-XLA-00062] c 14 N70-33254

Compact spectroradiometer

[NASA-CASE-HQN-10683] c 14 N71-34389

Physical correction filter for improving the optical quality

of an image

[NASA-CASE-HQN-10542-1] c 74 N75-25706

IMAGE INTENSIFIERS

Magnifying image intensifier

[NASA-CASE-GSC-12010-1] c 74 N78-18905

Method of obtaining intensified image from developed

photographic films and plates

[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING

Azimuth correlator for real-time synthetic aperture radar

image processing

[NASA-CASE-NPO-14019-1] c 32 N79-14268

Interleaving device

[NASA-CASE-GSC-12111-2] c 33 N81-29342

Clutter free synthetic aperture radar correlator

[NASA-CASE-NPO-14035-1] c 32 N83-19968

Longwall shearer tracking system

[NASA-CASE-MFS-25717-1] c 35 N84-33768

IMAGE RESOLUTION

Constant magnification optical tracking system

[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION

Rhomboid prism pair for rotating the plane of parallel

light beams

[NASA-CASE-ARC-11311-1] c 74 N83-13978

IMAGE TUBES

Image tube --- deriving electron beam replica of image

[NASA-CASE-GSC-11602-1] c 33 N74-21850

System for producing chroma signals

[NASA-CASE-MS-C-14683-1] c 74 N77-18893

IMAGES

Image magnification adapter for cameras Patent

[NASA-CASE-XMF-03844-1] c 14 N71-26474

Stereoscopic television system and apparatus

[NASA-CASE-ARC-10160-1] c 23 N72-27728

Wide-angle flat field telescope

[NASA-CASE-GSC-12825-1] c 74 N85-20868

IMAGING TECHNIQUES

- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
- Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N84-25450
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- IMIDES**
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
- Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N86-21590
- IMINES**
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- IMMOBILIZATION**
- Stretch Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- IMPACT**
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- IMPACT ACCELERATION**
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- IMPACT DAMAGE**
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- IMPACT LOADS**
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- IMPACT RESISTANCE**
- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- IMPACT STRENGTH**
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- IMPACT TESTING MACHINES**
- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TESTS**
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TOLERANCES**
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
- IMPEDANCE**
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- IMPEDANCE MATCHING**
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- IMPEDANCE MEASUREMENT**
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- IMPELLERS**
- Fluidic angular velocity sensor
[NASA-CASE-NPO-18479-1-CU] c 35 N85-29219
- IMPLANTATION**
- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- IMPLANTED ELECTRODES (BIOLOGY)**
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- IMPLOSIONS**
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- IMPREGNATING**
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- IMPULSE GENERATORS**
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- IMPURITIES**
- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- IN-FLIGHT MONITORING**
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- INCIDENCE**
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- INCIDENT RADIATION**
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
- INCLINATION**
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- INCOHERENT SCATTERING**
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- INDICATING INSTRUMENTS**
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- INDIUM ALLOYS**
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- INDIUM COMPOUNDS**
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
- INDUCTANCE**
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- INDUCTION HEATING**
Induction furnace with perforated tungsten foil shielding
Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- INDUCTION MOTORS**
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- INDUCTORS**
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- INDUSTRIAL PLANTS**
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- INDUSTRIAL WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- INERT ATMOSPHERE**
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- INERTIA**
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- INERTIAL CONFINEMENT FUSION**
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- INERTIAL GUIDANCE**
Hermetic sealed vibration damper Patent
[NASA-CASE-MS-C-10959] c 15 N71-26243
- INERTIAL NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- INERTIAL PLATFORMS**
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- INERTIAL REFERENCE SYSTEMS**
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
- INFLATABLE SPACECRAFT**
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- INFLATABLE STRUCTURES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MS-C-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- INFORMATION RETRIEVAL**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- INFRARED DETECTORS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- INFRARED INSTRUMENTS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- INFRARED INTERFEROMETERS**
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- INFRARED LASERS**
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- INFRARED RADIATION**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779
- INFRARED REFLECTION**
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- INFRARED SCANNERS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- INFRARED SPECTRA**
Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- INFRARED SPECTROMETERS**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- INFRARED SPECTROSCOPY**
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- INFRARED TELESCOPES**
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- INFRASONIC FREQUENCIES**
Resonant infrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
- INHIBITORS**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- INITIATORS (EXPLOSIVES)**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- INJECTION**
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- INJECTION LASERS**
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- INJECTORS**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
- INKS**
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- INLET FLOW**
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- INLET NOZZLES**
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- INLET PRESSURE**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- INOCULATION**
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- INORGANIC COATINGS**
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- INORGANIC COMPOUNDS**
- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- INORGANIC PEROXIDES**
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
- INPUT**
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- INPUT/OUTPUT ROUTINES**
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION

- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- INSERTION LOSS**
- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
- INSERTS**
- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802
- INSPECTION**
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
- INSTALLING**
- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- INSTRUMENT ERRORS**
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- INSTRUMENT FLIGHT RULES**
- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- INSTRUMENT ORIENTATION**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- INSTRUMENT PACKAGES**
- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- INSTRUMENTS**
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- INSULATED STRUCTURES**
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- INSULATION**
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- INSULATORS**
- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- INTAKE SYSTEMS**
- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- INTEGRATED CIRCUITS**
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587
- INTEGRATORS**
- Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10807] c 10 N71-23669
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- INTERFACES**
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
- LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
- INTERFACIAL TENSION**
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- INTERFEROMETERS**
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XQS-03532] c 14 N71-17627
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- INTERFEROMETRY**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- INTERLAYERS**
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- INTERMEDIATE FREQUENCY AMPLIFIERS**
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- INTERMETALLICS**
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
- Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- INTERNAL COMBUSTION ENGINES**
- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- INTERPLANETARY SPACE**
- Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- INTERPLANETARY SPACECRAFT**
- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- INTERPLANETARY TRAJECTORIES**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- INTRACRANIAL PRESSURE**
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- INTRAOCULAR PRESSURE**
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- INTRAVEHICULAR ACTIVITY**
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- INTRAVENOUS PROCEDURES**
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- INTRUSION**
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- INVENTIONS**
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- INVERTED CONVERTERS (DC TO AC)**
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
- INVERTERS**
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- IODINE**
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- IODINE COMPOUNDS**
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- IODINE ISOTOPES**
- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- ION ACCELERATORS**
- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION BEAMS**
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587
- ION CHARGE**
- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- ION CONCENTRATION**
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- ION CURRENTS**
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- ION CYCLOTRON RADIATION**
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- ION DENSITY (CONCENTRATION)**
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ION ENGINES**
- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248

ION EXCHANGE MEMBRANE ELECTROLYTES
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

ION EXTRACTION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION IMPLANTATION
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

ION TRAPS (INSTRUMENTATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION CHAMBERS

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION GAGES

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

IONIZERS

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

IONOSPHERE

Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

IONOSPHERIC DISTURBANCES

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

IRRIGATION

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ISOLATORS

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

ISOPROPYL ALCOHOL

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

J**JET AIRCRAFT**

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

Instrumentation for measurement of aircraft noise and sonic boom

[NASA-CASE-LAR-11173-1] c 35 N75-19614
Cascade plug nozzle --- for jet noise reduction

[NASA-CASE-LAR-11674-1] c 07 N76-18117
Noise suppressor for turbo fan jet engines

[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression

[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749

JET EXHAUST

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292

JET MIXING FLOW

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET PUMPS

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

JET THRUST

Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

JETTISON SYSTEMS

Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21811-1] c 54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Spacesuit mobility knee joints
[NASA-CASE-LAR-11058-2] c 54 N79-24651

JOINTS (JUNCTIONS)

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MSC-20635-1] c 18 N84-32424

Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021

Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666

Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

JOSEPHSON JUNCTIONS

Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

JOULE-THOMSON EFFECT

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

JOURNAL BEARINGS

Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388

Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

JUNCTION DIODES

Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041

Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

JUNCTION TRANSISTORS

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372

K

KEROGEN

Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

KETONES

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462

KEYING

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

KIDNEY DISEASES

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

KIDNEYS

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

KINETIC ENERGY

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

KINETIC FRICTION

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

KINETICS

Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

KNEE (ANATOMY)

Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666

KRAFT PROCESS (WOODPULP)

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

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LABORATORY EQUIPMENT

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

LACQUERS

Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

LADDERS

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

LAMINAR FLOW

Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

LAMINAR FLOW AIRFOILS

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

LAMINATES

Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphoryl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N85-21364
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798

LANDFORMS

Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

LANDING AIDS

Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

LANDING GEAR

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

LANDING MODULES

Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

LANDING SIMULATION

Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LANTHANUM COMPOUNDS

Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

LARGE SCALE INTEGRATION

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250

LARGE SPACE STRUCTURES

Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

LASER ALTIMETERS

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

LASER APPLICATIONS

High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778

LASER CAVITIES

Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

LASER DOPPLER VELOCIMETERS

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501

- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N85-20320
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N85-29216
- LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- LASER DRILLING**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- LASER FUSION**
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- LASER GUIDANCE**
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- LASER GYROSCOPES**
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- LASER HEATING**
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- LASER INTERFEROMETRY**
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- LASER MATERIALS**
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER MODE LOCKING**
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- LASER MODES**
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- LASER OUTPUTS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N85-20320
- Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778
- LASER PLASMAS**
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- LASER PUMPING**
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER RANGE FINDERS**
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982
- LASER RANGER/TRACKER**
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- LASER SPECTROMETERS**
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-15657-1-CU] c 36 N86-20777
- LASER SPECTROSCOPY**
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- LASER WINDOWS**
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- LASERS**
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
- LASING**
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596
- LATCHES**
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
- Latching mechanism for deployable-restorable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
- LATERAL CONTROL**
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LATERAL STABILITY

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

LAUNCH ESCAPE SYSTEMS

Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES

A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

LAUNCHERS

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

LAUNCHING PADS

Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAY-UP

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING

Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

LEAD (METAL)

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360

LEAD TELLURIDES

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-07118] c 26 N71-16037

LEADING EDGE FLAPS

Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES

Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

LEAKAGE

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

LEG (ANATOMY)

Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735

Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N79-30749

Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

LENS DESIGN

Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892

LENSES

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

LENTICULAR BODIES

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)

Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING

Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVITATION

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

LEVITATION MELTING

High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

LIFE (DURABILITY)

Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251

LIFE DETECTORS

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857

Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096

Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

LIFT

Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

LIFT DEVICES

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- LIFT DRAG RATIO**
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
- LIFTING BODIES**
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- LIFTING REENTRY VEHICLES**
- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- LIGANDS**
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- LIGHT (VISIBLE RADIATION)**
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- LIGHT AIRCRAFT**
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- LIGHT BEAMS**
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N85-28951
- Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- LIGHT EMITTING DIODES**
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
- LIGHT GAS GUNS**
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- LIGHT MODULATION**
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
- Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- LIGHT SCATTERING**
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- LIGHT SCATTERING METERS**
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- LIGHT SOURCES**
- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
- LIGHT TRANSMISSION**
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- LIGHT VALVES**
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- LIGHTING EQUIPMENT**
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- LIGHTNING**
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- LIMBS (ANATOMY)**
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
- LIMITER CIRCUITS**
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- LINE SPECTRA**
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N84-25450
- LINEAR ACCELERATORS**
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- LINEAR ARRAYS**
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
- LINEAR CIRCUITS**
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
- LINEAR INTEGRATED CIRCUITS**
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- LINEAR POLARIZATION**
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- LINEAR PROGRAMMING**
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
- LINEAR RECEIVERS**
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- LINEAR SYSTEMS**
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- LINEARITY**
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612
- Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- LININGS**
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

LINKAGES

- Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613

LIQUEFACTION

- Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION

- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS

- High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

LIQUID CHROMATOGRAPHY

- A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

LIQUID COOLING

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

LIQUID CRYSTALS

- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

LIQUID FILLED SHELLS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952

- Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
LIQUID HELIUM
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183

LIQUID HYDROGEN

- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084

LIQUID INJECTION

- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS

- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS

- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907

LIQUID METALS

- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

LIQUID NITROGEN

- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

LIQUID PHASES

- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

LIQUID PROPELLANT ROCKET ENGINES

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008

LIQUID ROCKET PROPELLANTS

- Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-NPO-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

LIQUID SLOSHING

- Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM

Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID SURFACES

Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297

LIQUID-GAS MIXTURES

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297

Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

LIQUID-VAPOR INTERFACES

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390

Automatic fluid dispenser
[NASA-CASE-LAR-10820-1] c 35 N78-19466

Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297

LITHIUM

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535

LITHIUM COMPOUNDS

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LITHIUM SULFUR BATTERIES

Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517

LOAD DISTRIBUTION (FORCES)

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

LOAD TESTING MACHINES

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

LOAD TESTS

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

LOADING OPERATIONS

Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466

Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813

Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052

Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611

Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612

LOCATES SYSTEM

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927

Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676

Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

LOCKS (FASTENERS)

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

LOCOMOTION

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

LOGARITHMIC RECEIVERS

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

LONGERONS

- Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
- LONGITUDINAL CONTROL**
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
- LONGITUDINAL STABILITY**
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- LOOK ANGLES (ELECTRONICS)**
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- LOOP ANTENNAS**
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- LOOPS**
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Fluidic momentum controller
[NASA-CASE-MS-C-20906-1] c 18 N86-19344
Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-1] c 34 N86-20721
- LOUVERS**
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- LOW ASPECT RATIO**
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- LOW COST**
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- LOW CURRENTS**
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
- LOW DENSITY MATERIALS**
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- LOW FREQUENCIES**
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- LOW GRAVITY MANUFACTURING**
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189

- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- LOW MOLECULAR WEIGHTS**
Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- LOW NOISE**
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- LOW PASS FILTERS**
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- LOW PRESSURE**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
- LOW SPEED**
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- LOW TEMPERATURE**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- LOW TEMPERATURE ENVIRONMENTS**
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- LOW TEMPERATURE TESTS**
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- LOW THRUST**
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- LOW VACUUM**
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- LOW VOLTAGE**
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MS-C-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- LOWER BODY NEGATIVE PRESSURE**
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
- LUBRICANTS**
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
- LUBRICATING OILS**
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- LUBRICATION**
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265

- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- LUBRICATION SYSTEMS**
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- LUMINAIRES**
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MS-C-18407-1] c 33 N82-24427
- LUMINANCE**
Television camera video level control system
[NASA-CASE-MS-C-18578-1] c 32 N85-21427
- LUMINOSSITY**
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- LUMINOUS INTENSITY**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- LUMPING**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- LUNAR BASES**
Self-adjusting - multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- LUNAR COMMUNICATION**
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- LUNAR COMPOSITION**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- LUNAR EXPLORATION**
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- LUNAR GRAVITATION**
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
- LUNAR GRAVITY SIMULATOR**
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- LUNAR LANDING**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- LUNAR LOGISTICS**
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- LUNAR ROCKS**
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
- LUNAR SOIL**
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
- LUNAR SURFACE VEHICLES**
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- LUNGS**
- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER

- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

MACHINE TOOLS

- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

MACHINERY

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-08956] c 15 N71-21177
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

MACHINING

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

MAGNESIUM

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS

- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES

- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

MAGNET COILS

- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS

- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS

- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804
- MAGNETIC CHARGE DENSITY**
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS

- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
- Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

MAGNETIC CONTROL

- Fast opening diaphragm Patent
[NASA-CASE-XLA-03680] c 15 N71-21060
- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

MAGNETIC CORES

- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

MAGNETIC DIPOLES

- Balance torque-meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS

- Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- Balance torque-meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MAGNETIC FILMS

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX

- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

MAGNETIC FORMING
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-03716] c 09 N71-24892
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

MAGNETIC LENSES
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

MAGNETIC MEASUREMENT
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY
Linear motion valve
[NASA-CASE-MS-20148-1] c 37 N85-29284

MAGNETIC POLES
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PUMPING
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOHYDRODYNAMIC FLOW
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETRON SPUTTERING

Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MS-20148-1] c 37 N85-29284

MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MS-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

MANIPULATORS

- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
- Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

MANNED ORBITAL LABORATORIES

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED ORBITAL RESEARCH LABORATORIES

- Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

MANNED SPACE FLIGHT

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492

MANNED SPACECRAFT

- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

MANOMETERS

- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL

- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING

- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
- Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- The 1-(diorganooxophosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

MAPPING

- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

MAPS

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS

- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

MASKS

- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

MASS

- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE

- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION

- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS

- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- MASS SPECTROSCOPY
- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- MATERIAL ABSORPTION
- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- MATERIALS
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

MATERIALS HANDLING

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

MATERIALS RECOVERY

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

MATHEMATICAL LOGIC

- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

MATRICES (CIRCUITS)

- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041

MATRIX MATERIALS

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

MCLEOD GAGES

- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEASURING INSTRUMENTS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085
- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
- Non-invasive method and apparatus for measuring pressure within a pilable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

MECHANICAL DEVICES

- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Satellite despion device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145

Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409

Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456

Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488

Solar energy powered heliotope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Reeling system
[NASA-CASE-LAR-10129-2] c 37 N74-20063

Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Reel safety brake
[NASA-CASE-GSC-11980-1] c 37 N77-14479

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483

Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

MECHANICAL DRIVES

Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805

Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815

Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518

Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855

Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060

Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611

Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

MECHANICAL ENGINEERING

Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

MECHANICAL MEASUREMENT

Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587

Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657

Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

MECHANICAL PROPERTIES

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

MECHANICS (PHYSICS)

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

MECHANIZATION

Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

MEDICAL ELECTRONICS

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

MEDICAL EQUIPMENT

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

MELTING

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

MELTING POINTS

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033

MELTS (CRYSTAL GROWTH)

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419

Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

MEMBRANE STRUCTURES

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

MEMBRANES

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567

Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

MEMORY

Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

MEMORY (COMPUTERS)

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

MERCURY (METAL)

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

MERCURY VAPOR

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

METABOLIC WASTES

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

METABOLISM

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10489-1] c 25 N75-12086

Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

METAL BONDING

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655

Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

METAL COATINGS

Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595

Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400

Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Improved thermal barrier coating system
[NASA-CASE-LEW-13324-1] c 26 N82-26431

Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

METAL COMPOUNDS

Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348

METAL CUTTING

Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

METAL FATIGUE

Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

METAL FIBERS

Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

METAL FILMS

Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

METAL FINISHING

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

METAL FOILS

Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

METAL FUELS

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

METAL HALIDES

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

METAL HYDRIDES

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

METAL IONS

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

METAL JOINTS

Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Tool and process for explosive joining of tubes
[NASA-CASE-LAR-13309-1] c 37 N86-21858

METAL MATRIX COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

METAL OXIDE SEMICONDUCTORS

Gyration employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated P-channel MOS gyration
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

METAL OXIDES

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463

METAL PARTICLES

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

METAL PLATES

Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

METAL POWDER

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

METAL SHEETS

Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

METAL SHELLS

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

METAL SPINNING

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

METAL SPRAYING

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

METAL STRIPS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

METAL SURFACES

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Corrosion resistant thermal barrier coating --- protecting
gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

METAL VAPOR LASERS

- High power metallic halide laser --- amplifying a copper
chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic
halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

METAL VAPORS

- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

METAL WORKING

- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Protective device for machine and metalworking tools
Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Insert facing tool --- manually operated cutting tool for
forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

METAL-METAL BONDING

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

METALLIC GLASSES

- Glass compositions with a high modulus of elasticity
--- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions
containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

METALLIZING

- Multilevel metallization method for fabricating a metal
oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of coating a substrate with a rapidly solidified
metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
A process to produce fine line metallic collection patterns
on semiconductor devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325

METALLOGRAPHY

- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

METALLOSILOXANE POLYMER

- Thiophenyl ether disiloxanes and trisiloxanes useful as
lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

METALLURGY

- Induction furnace with perforated tungsten foil shielding
Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of purifying metallurgical grade silicon employing
reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

METALS

- Transpiration cooled turbine blade manufactured from
wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Self-lubricating fluoride metal composite materials
Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Convoluting device for forming convolutions and the like
Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high
expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating
metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from
thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Device and method for frictionally testing materials for
ignitability
[NASA-CASE-MS-20622-1] c 25 N86-19413
Metal phthalocyanine intermediates for the preparation
of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow
cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

METASTABLE STATE

- Stabilization of He₂(a 3 Sigma u+ molecules in liquid
helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS

- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics
and flux distribution of micrometeorites --- scanning
puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES

- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEOROID DAMAGE

- Meteoroid sensing apparatus having a coincidence
network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS

- Meteoroid impact position locator aid for manned space
station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION

- Aerodynamic protection for space flight vehicles
Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

METEORIODS

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MS-12423-1] c 91 N76-30131

METEOROLOGICAL BALLOONS

- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE

- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Amine terminated bisaspartimides, process for
preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340
Portable remote laser sensor for methane leak
detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

METHYL ALCOHOLS

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS

- Process for producing tris s(n-methylamino)
methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

METHYLENE

- Carboranyl-methylene-substituted phosphazenes and
polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

MICHELSON INTERFEROMETERS

- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Multispectral imaging system
[NASA-CASE-MS-12404-1] c 23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Method and means for generation of tunable laser
sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

MICROANALYSIS

- Plural output optometric sample cell and analysis
system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MS-11242] c 35 N78-17358

MICROBALLOONS

- Method of forming frozen spheres in a force-free drop
tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

MICROBIOLOGY

- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including
automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable
carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial
drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in
microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218

MICROCHANNELS

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS

- System for detecting substructure microfractures and
method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine
seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

MICROELECTRONICS

- Apparatus and method for separating a semiconductor
wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for
microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar
cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level
interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level
interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

MICROFIBERS

- Small conductive particle sensor --- microfiber size
determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

MICROINSTRUMENTATION

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEORITIDS

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

MICROPARTICLES

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES

Audio signal processor Patent
[NASA-CASE-MS-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

MICROPROCESSORS

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

MICROSCOPES

Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250

MICROSTRIP TRANSMISSION LINES

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MS-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-18606-1] c 32 N82-11336

MICROSTRUCTURE

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotelectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

MICROTHRUST

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

MICROWAVE AMPLIFIERS

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

MICROWAVE ANTENNAS

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

MICROWAVE COUPLING

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MICROWAVE FILTERS

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

MICROWAVE RADIOMETERS

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

MICROWAVE REFLECTOMETERS

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE

Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SWITCHING

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES

Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both, transmitted and reflected return signals
[NASA-CASE-MS-18675-1] c 32 N84-22820
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

MIDAIR COLLISIONS

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES

- Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

MILLING (MACHINING)

- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES

- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MINERAL DEPOSITS

- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM

- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737

MINIATURE ELECTRONIC EQUIPMENT

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-C-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

MINING

- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS

- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

Strain gauge ambiguity sensor for segmented mirror active optical system

- [NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

MIS (SEMICONDUCTORS)

- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISSILE CONTROL

- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

MISSILE LAUNCHERS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-KKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-KKS-03338] c 15 N71-24043

MISSILE STRUCTURES

- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

MISSILES

- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

MITOSIS

- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

MIXERS

- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

MIXING CIRCUITS

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

MIXTURES

- Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033

MOBILITY

- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

MODE TRANSFORMERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

MODEMS

- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

MODES (STANDING WAVES)

- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

MODULATION

- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

MODULATORS

- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

MODULES

- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

MODULUS OF ELASTICITY

- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOISTURE

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MS-C-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE METERS

- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE

- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS

- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS

- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133

- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- MOLECULAR BEAMS**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- MOLECULAR CHAINS**
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- MOLECULAR GASES**
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- MOLECULAR PUMPS**
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- MOLECULAR RELAXATION**
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- MOLECULAR ROTATION**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- MOLECULAR SPECTRA**
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- MOLECULAR SPECTROSCOPY**
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- MOLECULAR WEIGHT**
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- MOLECULES**
Stabilization of He₂(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- MOLTEN SALT ELECTROLYTES**
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- MOLTEN SALTS**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- MOLYBDENUM**
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- MOLYBDENUM CARBIDES**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- MOLYBDENUM DISULFIDES**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- MOMENTS OF INERTIA**
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- MOMENTUM**
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- MONATOMIC GASES**
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- MONITORS**
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
- MONOCHROMATIC RADIATION**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- MONOCHROMATORS**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- MONOMERS**
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
- MONOPOLE ANTENNAS**
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
- MONOPROPELLANTS**
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- MONOPULSE ANTENNAS**
Monopulse system with an electronic scanner
[NASA-CASE-GSC-05582] c 07 N69-27460
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- MONOPULSE RADAR**
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- MONOSTABLE MULTIVIBRATORS**
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- MORPHOLOGY**
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- MOSSBAUER EFFECT**
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- MOTION**
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- MOTION PICTURES**
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- MOTION SIMULATORS**
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-12076-1] c 09 N75-15662
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- MOTION STABILITY**
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- MOTORS**
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- MOUNTING**
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Deformable bearing seal
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- MOVING TARGET INDICATORS**
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- MULTIBEAM ANTENNAS**
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- MULTICHANNEL COMMUNICATION**
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

N

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202

MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

MULTISPECTRAL BAND SCANNERS

Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297
Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016

MULTISPECTRAL PHOTOGRAPHY

Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Frangible link
[NASA-CASE-MS-C-11849-1] c 15 N72-22488
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTIVIBRATORS

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N-TYPE SEMICONDUCTORS

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

NACELLES

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980

NASA PROGRAMS

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION

Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

NAVIGATION AIDS

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS

Sun angle calculator
[NASA-CASE-MS-C-12617-1] c 35 N76-29552

NAVIGATION SATELLITES

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

NEAR INFRARED RADIATION

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-GSC-20546-2] c 14 N73-30389

NEGATIVE FEEDBACK

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22580-1] c 33 N77-14335

NEGATIVE IONS

Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701

NEODYMIUM LASERS

Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NETWORK SYNTHESIS

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEUROGLIA

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

NEUROLOGY

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NEUTRALIZERS

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

NEUTRON EMISSION

Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

NICKEL

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- NICKEL ALLOYS**
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
- NICKEL CADMIUM BATTERIES**
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- NICKEL COATINGS**
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- NICKEL COMPOUNDS**
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- NICKEL HYDROGEN BATTERIES**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084
- NICKEL PLATE**
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- NICKEL ZINC BATTERIES**
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- NIOBIUM**
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- NIOBIUM COMPOUNDS**
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401
- NITRAMINE PROPELLANTS**
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- NITRATES**
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- NITRIC OXIDE**
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- NITRIDES**
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401
- NITRILES**
Intumescent paint containing nitrile rubber
[NASA-CASE-LEW-10196-1] c 18 N73-13562
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
- NITRO COMPOUNDS**
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 23 N78-14096
The 1 - (dialkoxyposphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
- NITROAMINES**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- NITROGEN**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- NITROGEN COMPOUNDS**
Method for preparing addition type polyimide prepreps
[NASA-CASE-LEW-12054-2] c 27 N81-14078
- NITROGEN OXIDES**
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- NITROGEN TETROXIDE**
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- NITROGUANIDINE**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- NOBLE METALS**
GaAs Schottky barrier photo-responsive device and method of fabrication
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[NASA-CASE-ARC-11039-1] c 74 N78-32854
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Method of forming a sharp edge on an optical device
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Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
Optical system
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High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

OPTICAL GYROSCOPES
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
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[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129

OPTICAL HETERODYNING
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[NASA-CASE-MSC-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MEASUREMENT
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

OPTICAL MEASURING INSTRUMENTS
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N85-29216
- OPTICAL PATHS**
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- OPTICAL PROPERTIES**
Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- OPTICAL PUMPING**
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- OPTICAL PYROMETERS**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- OPTICAL RADAR**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- OPTICAL RANGE FINDERS**
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- OPTICAL REFLECTION**
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- OPTICAL RESONANCE**
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- OPTICAL SCANNERS**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N84-25450
- OPTICAL TRACKING**
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- OPTICAL TRANSFER FUNCTION**
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- OPTICAL WAVEGUIDES**
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- OPTIMIZATION**
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- OPTOGALVANIC SPECTROSCOPY**
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537
- ORAL HYGIENE**
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- ORBIT TRANSFER VEHICLES**
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471
- ORBITAL ASSEMBLY**
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- ORBITAL LAUNCHING**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470
- ORBITAL MANEUVERING VEHICLES**
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147
- ORBITAL MANEUVERS**
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- ORBITAL MECHANICS**
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- ORBITAL SERVICING**
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
- Mobile remote manipulator vehicle system.
[NASA-CASE-LAR-13393-1] c 54 N86-21147
- ORBITAL SPACE STATIONS**
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- ORGANIC CHEMISTRY**
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- ORGANIC COMPOUNDS**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
The 1-(diorganooxophosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
- ORGANIC PHOSPHORUS COMPOUNDS**
Fire resistant polymers based on 1-((dialkoxophosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
- ORGANIC SILICON COMPOUNDS**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- ORGANIC SULFUR COMPOUNDS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- ORGANOMETALLIC COMPOUNDS**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
- ORGANOMETALLIC POLYMERS**
Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- ORIFICE FLOW**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- ORIFICES**
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- ORTHO HYDROGEN**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHO PARA CONVERSION**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHOGONAL FUNCTIONS**
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537
- ORTHOGONAL MULTIPLEXING THEORY**
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- ORTHOGONALITY**
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

ORTHOPEDICS

- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

ORTHOTROPIC CYLINDERS

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATION DAMPERS

- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

OSCILLATIONS

- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

OSCILLATORS

- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755
- OSCILLOSCOPES**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- OUTER PLANETS EXPLORERS**
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

OUTGASSING

- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100

OUTLET FLOW

- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

OUTPUT

- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

OVENS

- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

OVERPRESSURE

- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

OVERVOLTAGE

- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

OXAZOLE

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

OXIDATION

- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

OXIDATION RESISTANCE

- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Improved thermal barrier coating system
[NASA-CASE-LEW-13324-1] c 26 N82-26431
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457

- Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463

OXIDATION-REDUCTION REACTIONS

- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS

- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463

OXIDES

- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

OXIDIZERS

- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

OXIMETRY

- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

OXYGEN

- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

OXYGEN CONSUMPTION

- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES

- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN METABOLISM

- Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA

- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN RECOMBINATION

- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084

OXYGEN REGULATORS

- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT

- Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE

- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N86-32514

P

P-I-N JUNCTIONS

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices
Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS

Semiconductor material and method of making same
Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

PACKAGES

Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING

Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156

PACKET TRANSMISSION

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

PACKINGS (SEALS)

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

PALLADIUM

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS

Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799

Panelized high performance multilayer insulation

Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

PAPER (MATERIAL)

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS

Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

PARABOLIC REFLECTORS

Parabolic reflector horn feed with spillover correction
Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

PARABOLOID MIRRORS

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system
Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL PLATES

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

PARAMETRIC AMPLIFIERS

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

PARTICLE ACCELERATION

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators
Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS

Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

PARTICLE COLLISIONS

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

PARTICLE DENSITY (CONCENTRATION)

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE MASS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance -- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

PARTICLE PRODUCTION

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TiG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler -- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

PARTICLE TRAJECTORIES

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter -- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system -- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-155559-1] c 71 N85-30765

PARTICULATE SAMPLING

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion -- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

PARTICULATES

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

PASSAGEWAYS

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

PASSENGERS

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PATENTS

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

PAYLOAD DELIVERY (STS)

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD RETRIEVAL (STS)

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omni-directional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

PCM TELEMETRY

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

PELLETS

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PENETRANTS

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle -- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer -- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS

Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

PERFLUOROALKANE

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES

Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS

Method of fabricating an article with cavities -- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

PERFORMANCE TESTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

PERIODIC VARIATIONS

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERMEABILITY

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system -- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PEROXIDES

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

PERTURBATION THEORY

Dual wavelength scanning Doppler velocimeter ---
without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

Method for determining the point of zero zeta potential
of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence
detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONTRAST

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Induction motor control system with voltage controlled
oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for
phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing
of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

Phase demodulation system with two phase locked loops
Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop
with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase
PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage
controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation
integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one
of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Apparatus and method for stabilized phase detection
for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase
modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Double reference pulsed phase locked loop
(DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

PHASE DEVIATION

System for stabilizing cable phase delay utilizing a
coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE LOCK DEMODULATORS

Compensating bandwidth switching transients in an
amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

PHASE LOCKED SYSTEMS

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties
Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a
phase-lock loop providing frequency preset capabilities
Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops
Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock
Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage
controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a
multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system --- for synchronizing the
rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Low speed phaselock speed control system --- for
brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop
with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for
active retrodirective antenna array --- microwave
transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for
suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage
controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Apparatus and method for tracking the fundamental
frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
Processing circuit with asymmetry corrector and
convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
Double reference pulsed phase locked loop
(DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
Means for phase locking the outputs of a surface emitting
laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

PHASE MODULATION

Phase quadrature-plural channel data transmission
system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Phase locked phase modulator including a voltage
controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Two carrier communication system with single
transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Decision feedback loop for tracking a polyphase
modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Modulator for tone and binary signals --- phase of
modulation of tone and binary signals on carrier waves
in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Phase modulating with odd and even finite power series
of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Closed Loop solar array-ion thruster system with power
control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna
array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Doppler radar having phase modulation of both
transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase
modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

PHASE SHIFT

Bi-polar phase detector and corrector for split phase
PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Electromagnetic polarization systems and methods
Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex
communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Method and apparatus for measuring minority carrier
lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251
Double reference pulsed phase locked loop
(DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

PHASE SHIFT CIRCUITS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Induction motor control system with voltage controlled
oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Low distortion automatic phase control circuit --- voltage
controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Fiber optic transmission line stabilization apparatus and
method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

PHASE SHIFT KEYING

Decision feedback loop for tracking a polyphase
modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Method and apparatus for quadrature-shift-key and
linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

PHASE SWITCHING INTERFEROMETERS

Radar antenna system for acquisition and tracking
Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

PHASE TRANSFORMATIONS

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084

PHASE VELOCITY

Ultrasonic calibration device --- for producing changes
in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

PHASED ARRAYS

Phase control circuits using frequency multiplications for
phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- PHENOLIC RESINS**
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- PHENOLS**
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- PHENYLS**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- PHONOCARDIOGRAPHY**
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- PHOSPHATES**
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- PHOSPHAZENE**
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranycyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- PHOSPHINES**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- PHOSPHONITRILES**
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- PHOSPHORS**
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- PHOSPHORUS**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- PHOSPHORUS COMPOUNDS**
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- The 1-(diorganoxyphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
- PHOSPHORUS POLYMERS**
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranycyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- PHOTOABSORPTION**
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOCATHODES**
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- PHOTOCHEMICAL REACTIONS**
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- PHOTOCONDUCTIVE CELLS**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- PHOTOCONDUCTIVITY**
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- PHOTOCONDUCTORS**
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- PHOTODIODES**
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- PHOTODISSOCIATION**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- PHOTOELECTRIC CELLS**
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- PHOTOELECTRIC EFFECT**
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- PHOTOELECTRIC EMISSION**
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- PHOTOELECTRIC MATERIALS**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- PHOTOELECTRICITY**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOELECTROCHEMICAL DEVICES**
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- PHOTOELECTRON SPECTROSCOPY**
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- PHOTOGRAPHIC EMULSIONS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- PHOTOGRAPHIC EQUIPMENT**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- PHOTOGRAPHIC FILM**
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
- PHOTOGRAPHIC MEASUREMENT**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- PHOTOGRAPHIC PROCESSING**
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- PHOTOGRAPHIC PROCESSING EQUIPMENT**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- PHOTOGRAPHIC RECORDING**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- PHOTOGRAPHY**
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639
- PHOTOIONIZATION**
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- PHOTOLYSIS**
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- PHOTOMAPPING**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- PHOTOMECHANICAL EFFECT**
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOMETERS**
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
- PHOTOMICROGRAPHY**
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
- PHOTOMULTIPLIER TUBES**
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- PHOTON BEAMS**
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- PHOTON-ELECTRON INTERACTION**
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- PHOTONS**
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779
- PHOTOSENSITIVITY**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- PHOTOTRANSISTORS**
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

PHOTOTROPISM

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- PHOTOVISCOELASTICITY**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- PHOTOVOLTAIC CELLS**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- PHOTOVOLTAIC CONVERSION**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOVOLTAIC EFFECT**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- PHTHALATES**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- PHTHALOCYANIN**
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
- PHYSICAL EXERCISE**
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- PHYSICAL PROPERTIES**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- PHYSIOLOGICAL EFFECTS**
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- PHYSIOLOGICAL TESTS**
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- PHYSIOLOGY**
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- PIERCING**
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- PIEZOELECTRIC CRYSTALS**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing dadium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- PIEZOELECTRIC TRANSDUCERS**
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- PIEZOELECTRICITY**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- PIEZORESISTIVE TRANSDUCERS**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- PIGMENTS**
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- PILOT TRAINING**
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- PILOTS (PERSONNEL)**
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- PINCH EFFECT**
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- PIN HOLE CAMERAS**
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- PINS**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- PINTLES**
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW

- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel
with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344

PIPELINES

- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

PIPELINING (COMPUTERS)

- Pipelined digital SAR azimuth correlator using hybrid
FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

PIPES (TUBES)

- Device for determining the accuracy of the flare on a
flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber
structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line
Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic
tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule
sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite
superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned
vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched
ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Improved fluid flow meter for measuring the rate of fluid
flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286

Fluid leak indicator

- [NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802
Self-contained, single-use hose and tubing cleaning
module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

PISTON ENGINES

- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS

- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Stirling cycle cryogenic cooler --- magnetically
suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975

PITCH (INCLINATION)

- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct
lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine
pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

PIVOTS

- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

PLANAR STRUCTURES

- Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor
cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

PLANE WAVES

- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES

- Method of planetary atmospheric investigation using a
split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles
between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omni-directional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY ORBITS

- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION

- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES

- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

PLANTS (BOTANY)

- Rotary plant growth accelerating apparatus ---
weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon
fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

PLASMA ACCELERATION

- Apparatus for increasing ion engine beam density
Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and
accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator
Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating
annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA CONTROL

- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS

- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY

- Focussing system for an ion source having apertured
electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS

- Probes having ring and primary sensor at same potential
to prevent collection of stray wall currents in ionized
gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA DYNAMICS

- Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES

- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

PLASMA GENERATORS

- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and
accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for
producing intense, coherent, monochromatic light from low
temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS

Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

PLASMA JETS

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

PLASMA RADIATION

Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

PLASMA TEMPERATURE

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMONS

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360

PLASTIC DEFORMATION

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

Method for forming plastic materials Patent
[NASA-CASE-XMS-05518] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES (STRUCTURAL MEMBERS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

PLATING

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS

Automated equipotential plotter
[NASA-CASE-NPO-11134-1] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTING

Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

PNEUMATIC CONTROL

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT

High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

POINT SOURCES

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS

- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

POINTS (MATHEMATICS)

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS

- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS

- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARITY

- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

POLARIZATION (WAVES)

- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

POLARIZED LIGHT

- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

POLARIZED RADIATION

- Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS

- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

POLES

- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

POLISHING

- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine — for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

POLLUTION MONITORING

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

Method for detecting pollutants — through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler — remote sampling of air and water

- [NASA-CASE-LAR-12308-1] c 35 N81-29407
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

POLYAMIDE RESINS

- Ultra-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N85-21364

POLYBENZIMIDAZOLE

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

POLYBUTADIENE

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

POLYCRYSTALS

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684

POLYESTERS

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

POLYETHER RESINS

- Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

POLYIMIDE RESINS

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Low density bismaleimide-carbon microballoon composites — aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457

POLYIMIDES

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Ambient cure polyimide foams — thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides — reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N85-20128
Elastomer toughened polyimide adhesives — bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Maleimide substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

Polyimides containing ATBN elastomers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685

POLYISOBUTYLENE

Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

POLYISOPRENES

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

POLYMER CHEMISTRY

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Synthesis of siloxane-containing epoxy polymers
Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
The 1-(diorganoxyphosphonyl)methyl-2, 4- and -2, 6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

POLYMER MATRIX COMPOSITES

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

POLYMER PHYSICS

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033

POLYMERIC FILMS

Processing for producing a sterilized instrument
Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Surface finishing
[NASA-CASE-MS-12631-3] c 27 N81-14077
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
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[NASA-CASE-LAR-13351-1] c 27 N85-21360

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

Polymers from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462

High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

POLYMERIZATION

New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

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[NASA-CASE-XMF-08652] c 06 N71-11243

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

Reaction of fluorine with polyperfluoropolyenes
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Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-14903-3] c 27 N80-24438

Perfluoroalkyl polytriazines containing pendent iodo-difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Carboranyl-cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

The 1 - (dialkoxyphosphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259

Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340

Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987

Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348

Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N85-21364

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461

Polymers from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

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Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- POLYMETHYL METHACRYLATE**
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- POLYPHENYL ETHER**
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- POLYPHENYLS**
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- POLYSACCHARIDES**
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- POLYTETRAFLUOROETHYLENE**
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- POLYURETHANE FOAM**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Flexible fire retardant foam
[NASA-CASE-ARC-10180-1] c 28 N72-20767
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- POLYURETHANE RESINS**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- POLYVINYL ALCOHOL**
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- PONDS**
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- PORCELAIN**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- POROSITY**
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- POROUS MATERIALS**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755
- POROUS PLATES**
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- PORPHYRINS**
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- PORTABLE EQUIPMENT**
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086
- PORTABLE LIFE SUPPORT SYSTEMS**
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- PORTS (OPENINGS)**
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- POSITION (LOCATION)**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- POSITION INDICATORS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620
Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226

POSITION SENSING
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

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Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

POSITIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POTABLE WATER
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

POWDER METALLURGY
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Cermets composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

POWDERED ALUMINUM
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY
Low power drain semiconductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN
Serrrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
CRT blanking and brightness control circuit
[NASA-CASE-GSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- PRECSSION**
- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- PRECIPITATION (CHEMISTRY)**
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- PRECIPITATORS**
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- PRECISION**
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- PREFLIGHT OPERATIONS**
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- PRELAUNCH TESTS**
- Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
- Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- PREPOLYMERS**
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- PREPREGS**
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
- PRESSURE**
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217
- PRESSURE CHAMBERS**
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- PRESSURE DISTRIBUTION**
- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- PRESSURE DROP**
- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- PRESSURE EFFECTS**
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
- Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564
- PRESSURE GAGES**
- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- PRESSURE GRADIENTS**
- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- PRESSURE HEADS**
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- PRESSURE MEASUREMENT**
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- PRESSURE REDUCTION**
- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- PRESSURE REGULATORS**
- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- PRESSURE SENSORS**
- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896

Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407

Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MS-C-18807-1] c 37 N83-36483

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217

Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N85-29219

PRESSURE SUITS

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Method of forming a root cord restrained convolute section
[NASA-CASE-MS-C-12398] c 05 N72-20098

Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119

Flexible joint for pressurizable garment
[NASA-CASE-MS-C-11072] c 54 N74-32546

Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803

PRESSURE SWITCHES

Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Gas compression apparatus
[NASA-CASE-MS-C-14757-1] c 35 N78-10428

Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084

PRESSURE WELDING

Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING

Restraining mechanism
[NASA-CASE-MS-C-13054] c 54 N78-17677

PRESTRESSING

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482

Preloadable vector sensitive latch
[NASA-CASE-MS-C-20910-1] c 37 N86-19613

PRETREATMENT

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482

PRIMARY BATTERIES

Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517

PRINTED CIRCUITS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431

Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

Polyimide resin-fiberglass cloth laminates for printed circuit boards
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- Method of coating through-holes Patent
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- Method of coating solar cell with borosilicate glass and resultant product
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[NASA-CASE-ARC-11042-1] c 24 N78-14096
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[NASA-CASE-MSC-18852-1] c 37 N85-29283
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[NASA-CASE-LEW-14072-1] c 27 N86-19458
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- Two carrier communication system with single transmitter
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- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- Pseudonoise code tracking loop
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- Pulse amplitude and width detector Patent
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- Analog-to-digital converter
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- Electro-mechanical sine/cosine generator
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- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
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- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
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- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
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[NASA-CASE-XGS-01590] c 07 N71-12392
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[NASA-CASE-XGS-01021] c 08 N71-21042
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
- Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
- Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
- Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
- Pulse code modulated signal synchronizer
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
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- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
- PULSE COMMUNICATION**
- Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
- A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
- PULSE DURATION**
- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- PULSE DURATION MODULATION**
- Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
- PULSE FREQUENCY MODULATION**
- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- PULSE GENERATORS**
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620

PULSE HEATING

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620

PULSE RATE

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MS-C-14129-1] c 33 N75-18479
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

PULSED LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307

PULSES

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PUMP SEALS

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firely pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MS-C-18794-1] c 44 N83-14693
Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N85-29219
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288
Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-1] c 34 N86-20721

PUNCHED CARDS

File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

PURITY

Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684

PUSH-PULL AMPLIFIERS

Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Universal clamp
[NASA-CASE-MS-C-20549-1] c 37 N86-19612

PYLONS

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

PYRIDINES

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

PYROELECTRICITY

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN

Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

PYROLYTIC GRAPHITE

Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

PYROLYTIC MATERIALS

Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623

PYROMETERS

Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

PYROTECHNICS

Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287

PYRRONES (TRADEMARK)

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Q VALUES

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

QUADRATIC PROGRAMMING

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

QUADRATURES

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

QUALITATIVE ANALYSIS

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MS-C-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285

QUANTITATIVE ANALYSIS

Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MS-C-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

QUANTUM THEORY

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

QUARTZ

Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

QUARTZ LAMPS

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

QUINOXALINES

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

R

RACKS (FRAMES)

- Test stand system for vacuum chambers
 [NASA-CASE-MFS-21362] c 11 N73-20267
 Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
 [NASA-CASE-MFS-21680-1] c 18 N74-27397
 Automated syringe sampler --- remote sampling of air and water
 [NASA-CASE-LAR-12308-1] c 35 N81-29407
 Laboratory glassware rack for seismic safety
 [NASA-CASE-ARC-11422-1] c 35 N84-20808
 Laboratory glassware rack for seismic safety
 [NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS

- Radar antenna system for acquisition and tracking Patent
 [NASA-CASE-XMS-09610] c 07 N71-24625
 Variable beamwidth antenna --- with multiple beam, variable feed system
 [NASA-CASE-GSC-11862-1] c 32 N76-18295
 Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
 [NASA-CASE-NPO-13568-1] c 32 N76-21365
 Baseband signal combiner for large aperture antenna array
 [NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION

- FM/CW radar system
 [NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS

- Video processor for air traffic control beacon system
 [NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR DATA

- Charge-coupled device data processor for an airborne imaging radar system
 [NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR ECHOES

- Charge-coupled device data processor for an airborne imaging radar system
 [NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT

- Method and apparatus for mapping planets
 [NASA-CASE-NPO-11001] c 07 N72-21118
 FM/CW radar system
 [NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY

- Method of locating persons in distress --- by using radar imagery from radar reflectors
 [NASA-CASE-LAR-11390-1] c 32 N77-21267
 Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
 [NASA-CASE-NPO-14525-1] c 32 N79-19195
 Radar target for remotely sensing hydrological phenomena
 [NASA-CASE-LAR-12344-1] c 43 N80-18498
 Real-time multiple-look synthetic aperture radar processor for spacecraft applications
 [NASA-CASE-NPO-14054-1] c 32 N82-12297
 Clutter free synthetic aperture radar correlator
 [NASA-CASE-NPO-14035-1] c 32 N83-19968
 Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
 [NASA-CASE-NPO-14525-2] c 32 N83-31918
 Method and apparatus for contour mapping using synthetic aperture radar
 [NASA-CASE-NPO-15939-1] c 43 N86-19711

RADAR MEASUREMENT

- Thickness measurement system
 [NASA-CASE-MFS-23721-1] c 31 N79-28370

RADAR RANGE

- Radar ranging receiver Patent
 [NASA-CASE-XNP-00748] c 07 N70-36911

RADAR RECEIVERS

- Polarization diversity monopulse tracking receiver Patent
 [NASA-CASE-XGS-03501] c 09 N71-20864

RADAR RECEPTION

- Radar ranging receiver Patent
 [NASA-CASE-XNP-00748] c 07 N70-36911

RADAR REFLECTORS

- Inflatable radar reflector unit Patent
 [NASA-CASE-XMS-00893] c 07 N70-40063
 Method of locating persons in distress --- by using radar imagery from radar reflectors
 [NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS

- Radar target for remotely sensing hydrological phenomena
 [NASA-CASE-LAR-12344-1] c 43 N80-18498
 Synthetic aperture radar target simulator
 [NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING

- Tracking antenna system Patent
 [NASA-CASE-GSC-10553-1] c 07 N71-19854

Polarization diversity monopulse tracking receiver Patent

- [NASA-CASE-XGS-03501] c 09 N71-20864
 Monopulse tracking system Patent
 [NASA-CASE-XGS-01155] c 10 N71-21483
 Radar calibration sphere
 [NASA-CASE-XLA-11154] c 07 N72-21117
 Echo tracker/range finder for radars and sonars
 [NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS

- High pulse rate high resolution optical radar system
 [NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION

- Ultrasonic transducer with Gaussian radial pressure distribution
 [NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW

- Radial heat flux transformer
 [NASA-CASE-NPO-10828] c 33 N72-17948
 Axially and radially controllable magnetic bearing
 [NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE

- Shock-layer radiation measurement
 [NASA-CASE-XAC-02970] c 14 N69-39896
 Optical multiple sample vacuum integrating sphere
 [NASA-CASE-GSC-12849-1] c 74 N84-15960

RADIANT COOLING

- Direct radiation cooling of the collector of linear beam tubes
 [NASA-CASE-XNP-09227] c 15 N69-24319
 Process for applying black coating to metals Patent
 [NASA-CASE-XLA-06199] c 15 N71-24875
 Method for attaching a fused-quartz mirror to a conductive metal substrate
 [NASA-CASE-MFS-23405-1] c 26 N77-29260
 Radiative cooler --- spacecraft radiators
 [NASA-CASE-NPO-15465-1] c 34 N84-22903

RADIANT FLUX DENSITY

- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
 [NASA-CASE-ARC-10178-1] c 09 N72-17152
 Microwave power transmission beam safety system
 [NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING

- High intensity heat and light unit Patent
 [NASA-CASE-XLA-00141] c 09 N70-33312
 High temperature heat source Patent
 [NASA-CASE-XLE-00490] c 33 N70-34545
 Radiant heater having formed filaments Patent
 [NASA-CASE-XLE-00387] c 33 N70-34812
 Ceramic insulation for radiant heating environments and method of preparing the same Patent
 [NASA-CASE-MFS-14253] c 33 N71-24858
 Portable linear-focused solar thermal energy collecting system
 [NASA-CASE-NPO-13734-1] c 44 N78-10554
 High thermal power density heat transfer --- thermionic converters
 [NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION

- Two color horizon sensor
 [NASA-CASE-ERC-10174] c 14 N72-25409
 Irradiance measuring device
 [NASA-CASE-NPO-11493] c 14 N73-12447
 Analog to digital converter for two-dimensional radiant energy array computers
 [NASA-CASE-GSC-11839-3] c 60 N77-32731
 Memory device for two-dimensional radiant energy array computers
 [NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION

- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
 [NASA-CASE-ARC-10802-1] c 35 N75-30502
 Method for making an aluminum or copper substrate panel for selective absorption of solar energy
 [NASA-CASE-MFS-23518-1] c 44 N79-11469
 Broadband optical radiation detector
 [US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS

- Particle detection apparatus Patent
 [NASA-CASE-XLA-00135] c 14 N70-33322
 Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
 [NASA-CASE-XGS-00466] c 21 N70-34297
 Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
 [NASA-CASE-XLE-00243] c 14 N70-38602
 Baseline stabilization system for ionization detector Patent
 [NASA-CASE-XNP-03128] c 10 N70-41991
 Method of forming thin window drifted silicon charged particle detector Patent
 [NASA-CASE-XLE-00808] c 24 N71-10560

Dosimeter for high levels of absorbed radiation Patent

- [NASA-CASE-XLA-03645] c 14 N71-20430
 Coincidence apparatus for detecting particles
 [NASA-CASE-XLA-07813] c 14 N72-17328
 Radiation and particle detector and amplifier
 [NASA-CASE-NPO-12128-1] c 14 N73-32317
 Coaxial anode wire for gas radiation counters
 [NASA-CASE-GSC-11492-1] c 35 N74-26949
 Particle parameter analyzing system --- x-y plotter circuits and display
 [NASA-CASE-XLE-06094] c 33 N78-17293
 Method and means for helium/hydrogen ratio measurement by alpha scattering
 [NASA-CASE-NPO-14079-1] c 25 N80-20334
 Ion mass spectrometer
 [NASA-CASE-NPO-15423-1] c 35 N84-28016
 Radionuclide counting technique for measuring wind velocity and direction
 [NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE

- Semiconductor material and method of making same Patent
 [NASA-CASE-XLE-02798] c 26 N71-23654
 Recovery of radiation damaged solar cells through thermal annealing
 [NASA-CASE-XGS-04047-2] c 03 N72-11062
 Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
 [NASA-CASE-ARC-10593-1] c 33 N74-27682
 Lithium counterdoped silicon solar cell
 [NASA-CASE-LEW-14177-1] c 44 N85-20535

RADIATION DETECTORS

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
 [NASA-CASE-MSC-12280] c 27 N71-16348
 Light detection instrument Patent
 [NASA-CASE-XGS-05534] c 23 N71-16355
 Attitude sensor for space vehicles Patent
 [NASA-CASE-XLA-00793] c 21 N71-22880
 Extended area semiconductor radiation detectors and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c 14 N71-23401
 Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
 [NASA-CASE-ARC-10308-1] c 06 N72-31141
 Radiant source tracker independent of nonconstant irradiance
 [NASA-CASE-NPO-11686] c 14 N73-25462
 Radiation and particle detector and amplifier
 [NASA-CASE-NPO-12128-1] c 14 N73-32317
 Mossbauer spectrometer radiation detector
 [NASA-CASE-LAR-11155-1] c 35 N74-15091
 High field CdS detector for infrared radiation
 [NASA-CASE-LAR-11027-1] c 35 N74-18088
 Flame detector operable in presence of proton radiation
 [NASA-CASE-MFS-21577-1] c 19 N74-29410
 Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
 [NASA-CASE-NPO-13327-1] c 35 N75-23910
 Detector absorptivity measuring method and apparatus
 [NASA-CASE-LAR-10907-1] c 35 N76-29551
 Wedge immersed thermistor bolometers
 [NASA-CASE-XGS-01245-1] c 35 N79-33449
 X-ray position detector
 [NASA-CASE-NPO-12087-1] c 74 N81-19898
 Broadband optical radiation detector
 [US-PATENT-4,262,198] c 74 N83-19597
 Miniature spectrally selective dosimeter
 [NASA-CASE-LAR-12469-1] c 35 N83-21311
 Method and apparatus for precision control of radiometer
 [NASA-CASE-NPO-15398-1] c 35 N84-22931
 Improved fluid flow meter for measuring the rate of fluid flow in a conduit
 [NASA-CASE-MFS-28030-1] c 35 N85-30286
 Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
 [NASA-CASE-NPO-16372-1] c 72 N85-30779

RADIATION DISTRIBUTION

- Space simulator Patent
 [NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE

- Dosimeter for high levels of absorbed radiation Patent
 [NASA-CASE-XLA-03645] c 14 N71-20430
 Method for analyzing radiation sensitivity of integrated circuits
 [NASA-CASE-NPO-14350-1] c 33 N80-14332
 Miniature spectrally selective dosimeter
 [NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

RADIATION HARDENING

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

RADIATION HAZARDS

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat
Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803

RADIATION SHIELDING

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

RADIATION SOURCES

Sight switch using an infrared source and sensor
Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

RADIATION SPECTRA

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Method of making a silicon semiconductor device
Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Radiation resistant silicon semiconductor devices
Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535

RADIATIVE HEAT TRANSFER

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

RADIO ASTRONOMY

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226

RADIO COMMUNICATION

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121

RADIO CONTROL

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

RADIO EQUIPMENT

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

RADIO FREQUENCIES

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities
Patent
[NASA-CASE-XMF-08665] c 10 N71-19467

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248

Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

RADIO FREQUENCY INTERFERENCE
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

RADIO FREQUENCY SHIELDING
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

RADIO INTERFEROMETERS
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

RADIO PROBING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

RADIO RECEIVERS
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775

Optimum predetection diversity receiving system
Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

RADIO RELAY SYSTEMS
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

RADIO SIGNALS
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

RADIO STARS
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

RADIO TELEMETRY
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

RADIO TELESCOPES
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121

RADIO WAVES

Shielded cathode wave bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPES

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY

Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

RADIOGRAPHY

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MS-C-20418-1] c 74 N86-20126

RADIOLOGY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

RADIOLYSIS

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

RADIOSONDES

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAIN

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N72-22480

RANDOM ACCESS MEMORY

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

RANDOM LOADS

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-MS-C-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MS-C-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

RANGE (EXTREMES)

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE FINDERS

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RANGEFINDING

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982

RARE EARTH COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

RAREFIED GASES

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RATES (PER TIME)

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RC CIRCUITS

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION CONTROL

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION TIME

Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179

REACTION WHEELS

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299

REACTIVITY

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES

Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

READOUT

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAL TIME OPERATION

Respiratory analysis system and method
[NASA-CASE-MS-C-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

REBREATHING

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MS-C-16182-1] c 54 N80-10799

RECEIVERS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-C-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MS-C-16370-1] c 35 N81-19427
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MS-C-16170-2] c 32 N84-27952

- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- RECIPROCATION**
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- RECONSTRUCTION**
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- RECORDING HEADS**
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- RECORDING INSTRUMENTS**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- RECOVERABILITY**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
- RECOVERABLE LAUNCH VEHICLES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- RECOVERABLE SPACECRAFT**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- RECOVERY PARACHUTES**
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- RECTANGULAR PANELS**
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- RECTIFIERS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- RECTUM**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- REDOX CELLS**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- REDUCED GRAVITY**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- REDUCTION (CHEMISTRY)**
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- REDUNDANCY**
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- REDUNDANT COMPONENTS**
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- REELS**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- REENTRY COMMUNICATION**
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
- REENTRY SHIELDING**
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- REENTRY TRAJECTORIES**
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- REENTRY VEHICLES**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- REFERENCE SYSTEMS**
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- REFINING**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- REFLECTANCE**
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- REFLECTED WAVES**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
- REFLECTING TELESCOPES**
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 69 N79-10969
- REFLECTION**
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- REFLECTOMETERS**
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- REFLECTOR ANTENNAS**
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- REFLECTORS**
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- REFRACTIVITY**
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222

- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639
- REFRACTORY COATINGS**
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- REFRACTORY MATERIALS**
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- REFRACTORY METALS**
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- REFRIGERATING**
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REFRIGERATING MACHINERY**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogen for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- REFRIGERATORS**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084
- REGENERATION (ENGINEERING)**
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- REGENERATION (PHYSIOLOGY)**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- REGENERATIVE COOLING**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- REGENERATIVE FUEL CELLS**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- REGENERATORS**
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REGISTERS (COMPUTERS)**
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- REINFORCED PLASTICS**
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- REINFORCEMENT (STRUCTURES)**
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
- REINFORCING FIBERS**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HON-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
- RELAXATION OSCILLATORS**
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- RELAY SATELLITES**
Satellite communication system and method Patent
[NASA-CASE-XGA-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- RELEASING**
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
- RELIABILITY ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- RELIABILITY ENGINEERING**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
- RELIEF MAPS**
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- RELIEF VALVES**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- REMOTE CONTROL**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288
- Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MS-C-20979-1] c 37 N86-19614
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804
- REMOTE HANDLING**
- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- REMOTE MANIPULATOR SYSTEM**
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MS-C-20979-1] c 37 N86-19614
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147
- REMOTE SENSING**
- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- REMOTE SENSORS**
- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- REMOTELY PILOTED VEHICLES**
- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- REMOVAL**
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- REPEATERS**
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- REPLACING**
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- RESCUE OPERATIONS**
- Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MS-C-20979-1] c 37 N86-19614
- RESEARCH AIRCRAFT**
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- RESEARCH AND DEVELOPMENT**
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- RESEARCH VEHICLES**
- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- RESIDUAL STRESS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
- RESILIENCE**
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- RESIN BONDING**
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- RESIN MATRIX COMPOSITES**
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
- Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- RESINS**
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
- RESISTANCE**
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
- Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- RESISTANCE HEATING**
- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
- RESISTORS**
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- RESOLUTION**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- RESOLVERS**
- Differential phase shift keyed signal resolver
[NASA-CASE-MS-C-14066-1] c 33 N74-27705
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298
- RESONANCE**
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- RESONANT FREQUENCIES**
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Microbalance --- for measuring particle mass
[NASA-CASE-MS-C-11242] c 35 N78-17358
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

RESONANT VIBRATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

RESONATORS

High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

RESPIRATION

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MS-C-13436-1] c 05 N73-32015

Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS

Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSES

Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES

Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING

Floating nut retention system
[NASA-CASE-MS-C-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETARDERS (DEVICES)

Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING

Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES

Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

RETINAL IMAGES

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETORT PROCESSING

Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

RETRACTABLE EQUIPMENT

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MS-C-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

RETROREFLECTORS

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

RETROROCKET ENGINES

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

REUSABLE HEAT SHIELDING

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

REUSABLE SPACECRAFT

Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MS-C-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673

REVERSE OSMOSIS

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW

Multi-stage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

REYNOLDS NUMBER

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS

System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS

Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOLDS

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00184] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

RIBOFLAVIN

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE

Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096

RIDING QUALITY

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

RIGID ROTORS

Hingeless helicopter rotor with improved stability
[NASA-CASE-LAR-10807-1] c 05 N77-17029

RIGID STRUCTURES

Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

RIGID WINGS

Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

RING WINGS

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOTICS

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

ROCKET ENGINE CASES

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

- Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
- ROCKET ENGINE CONTROL**
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- ROCKET ENGINE DESIGN**
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- ROCKET ENGINES**
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- ROCKET EXHAUST**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- ROCKET FIRING**
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- ROCKET FLIGHT**
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- ROCKET LAUNCHING**
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- ROCKET LININGS**
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- ROCKET NOZZLES**
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- ROCKET OXIDIZERS**
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- ROCKET PROPELLANTS**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- ROCKET TEST FACILITIES**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- ROCKET THRUST**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- ROCKET VEHICLES**
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- ROCKET-BORNE INSTRUMENTS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- ROCKETS**
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- ROCKS**
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- RODS**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
- ROLL**
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- ROLLER BEARINGS**
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- ROLLERS**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- ROLLING CONTACT LOADS**
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- ROLLING MOMENTS**
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- ROOM TEMPERATURE**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- ROTARY GYROSCOPES**
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129
- ROTARY STABILITY**
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
- ROTARY WING AIRCRAFT**
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- ROTARY WINGS**
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- ROTATING BODIES**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

ROTATING CYLINDERS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

ROTATING DISKS

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015

ROTATING ELECTRICAL MACHINES

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096

ROTATING MIRRORS

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

ROTATION

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

ROTOR AERODYNAMICS

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS

Multi-stage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

S

SABOT PROJECTILES

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

SAFETY FACTORS

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N79-17134
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

SANDWICH STRUCTURES

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

SATELLITE ATTITUDE CONTROL

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE CONTROL

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

SATELLITE DESIGN

Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

SATELLITE NETWORKS

Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

SATELLITE ORIENTATION

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION (TO EARTH)

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

SATELLITE ROTATION

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

SATELLITE TELEVISION

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

SATELLITE TRACKING

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

SATELLITE TRANSMISSION

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

SATELLITE-BORNE INSTRUMENTS

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

SATURATION

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

SAWS

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SAWTOOTH WAVEFORMS

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

SCANNERS

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

SCATTERING CROSS SECTIONS

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

SCENE ANALYSIS

Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221

SCHLIEREN PHOTOGRAPHY

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526

Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

SCOOPS

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289

SCRUBBERS

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15551-1] c 43 N85-21723

SEALERS

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

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Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Valve seal
[NASA-CASE-NPO-10606] c 15 N72-25451

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

SEALS (STOPPERS)

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N85-20377

Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

SECONDARY EMISSION

Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

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[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

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Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

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Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MSC-20635-1] c 18 N84-32424

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

SELF MANEUVERING UNITS

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

SEMICONDUCTOR DEVICES

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251
Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

SEMICONDUCTOR JUNCTIONS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

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[NASA-CASE-XKS-04614] c 15 N69-21460
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[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
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[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
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[NASA-CASE-XLE-10715] c 26 N71-23292
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[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933
High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981

SENSITIVITY

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

SENSITOMETRY

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
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[NASA-CASE-XMS-02952] c 18 N71-20742
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[NASA-CASE-XNP-00425] c 11 N70-38202
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[NASA-CASE-XMS-01624] c 15 N70-40062
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[NASA-CASE-XLE-00586] c 15 N71-15968
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[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

SEQUENCING
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MS-C-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306

SERUMS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

SERVICE LIFE
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

SERVOAMPLIFIERS
Pneumatic amplifier Patent
[NASA-CASE-MS-C-12121-1] c 15 N71-27147

SERVOCONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVO MECHANISMS
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Universal clamp
[NASA-CASE-MS-C-20549-1] c 37 N86-19612

SERVOMOTORS
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

SEWAGE TREATMENT
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N86-20803

SHAFTS (MACHINE ELEMENTS)
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

Non-backdrivable free wheeling coupling
[NASA-CASE-MS-C-20475-1] c 37 N85-29290

SHAPE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15856-1] c 43 N84-23012
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

SHAPE MEMORY ALLOYS
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

A *m*-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHOCK ABSORBERS

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679

Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343

Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530

Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092

Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544

SHOCK LOADS

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

SHOES

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

SHOT PEENING

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS

Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986

SHROUDED NOZZLES

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

SHROUDS

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SIDE INLETS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

SIDELobe REDUCTION

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYZERS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257

Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL DETECTORS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

SIGNAL DISTORTION

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

SIGNAL ENCODING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SIGNAL GENERATORS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679

Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11823-1] c 71 N74-31148

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

SIGNAL MEASUREMENT
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

SIGNAL RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

Ferrolfluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Scan converting video tape recorder
[NASA-CASE-NPO-10186-2] c 35 N76-16391

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL REFLECTION
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

- Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- SIGNAL TRANSMISSION**
- Time division multiplex system
[NASA-CASE-XGS-05818] c 07 N69-39974
- Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
- Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
- Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
- Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- SIGNATURE ANALYSIS**
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- SILANES**
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Process for producing tris s(n-methylamino)methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- SILICA GEL**
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- SILICA GLASS**
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- SILICATES**
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SILICIDES**
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- SILICON**
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- SILICON CARBIDES**
- A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- SILICON COMPOUNDS**
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- SILICON CONTROLLED RECTIFIERS**
- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- SILICON DIOXIDE**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- SILICON FILMS**
- A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SILICON JUNCTIONS**
- Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981
- SILICON NITRIDES**
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- SILICON OXIDES**
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- SILICON POLYMERS**
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

SILICON RADIATION DETECTORS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

SILICON TRANSISTORS

- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SILICONE RESINS

- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

SILICONES

- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532

SILICONIZING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

SILOXANES

- Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Thermal protection system
[NASA-CASE-MS-C-18796-1] c 24 N82-26389
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685

SILVER

- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

SILVER ALLOYS

- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

SILVER CHLORIDES

- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

SILVER COMPOUNDS

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718

SILVER ZINC BATTERIES

- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SIMULATION

- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803

SIMULATORS

- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321

SIMULTANEOUS EQUATIONS

- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

SINE SERIES

- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

SINE WAVES

- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

- Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

SINGLE CRYSTALS

- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043

- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

- Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993

- Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906

- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178

- Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932

SINTERING

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

SIZE (DIMENSIONS)

- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987

SIZE DETERMINATION

- Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

SIZE SEPARATION

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS

- Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS

- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS

- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)

- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)

- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

SKIN FRICTION

- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610

SKIN TEMPERATURE (BIOLOGY)

- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)

- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIRTS

- Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS

- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP

- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729

SLEEVES

- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

SLENDER BODIES

- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLENDER WINGS

- Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

SLICING

- Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING CONTACT

- Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION

- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING

- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS

- Silt regulated gas joint bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES

- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS

- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

- Omni-directional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558
- SLOTS**
- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- SLUDGE**
- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- SLURRIES**
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- SLURRY PROPELLANTS**
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- SMOKE**
- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- SODIUM CHLORIDES**
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- SODIUM VAPOR**
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- SOFT LANDING**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
- Omni-directional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- SOFT LANDING SPACECRAFT**
- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- SOIL MECHANICS**
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- SOIL MOISTURE**
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- SOIL SCIENCE**
- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- SOILS**
- Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- SOL-GEL PROCESSES**
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SOLAR ACTIVITY**
- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- SOLAR ARRAYS**
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Solar energy powered heliostole
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- SOLAR CELLS**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535
High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981

SOLAR COLLECTORS

- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Low cost solar energy collection system
[NASA-CASE-NPO-13759-1] c 44 N78-17460
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Non-tracking solar energy collector system
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Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Primary reflector for solar energy collection systems and method of making same
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Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Combined solar collector and energy storage system
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Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
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[NASA-CASE-NPO-15183-1] c 44 N82-26776
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[NASA-CASE-LEW-13132-1] c 27 N83-29388
Protective telescoping shield for solar concentrator
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Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- SOLAR ELECTRIC PROPULSION**
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

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- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Three-dimensional tracking solar energy concentrator and method for making same
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Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
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- SOLAR ENERGY ABSORBERS**
Panel for selectively absorbing solar thermal energy and the method of producing said panel
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Solar energy trap
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[NASA-CASE-LEW-12587-1] c 44 N77-31601
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
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[NASA-CASE-NPO-14126-1] c 44 N79-11470
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[NASA-CASE-NPO-14058-1] c 44 N79-18443
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
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- SOLAR FLUX DENSITY**
Solar energy modulator
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- SOLAR FURNACES**
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- SOLAR GENERATORS**
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064

- Wind and solar powered turbine
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Long gain length solar pumped box laser
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- SOLAR GRAVITATION**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
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- SOLAR OBSERVATORIES**
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- SOLAR PONDS (HEAT STORAGE)**
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[NASA-CASE-NPO-13581-2] c 44 N78-31525
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[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR POSITION**
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
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- SOLAR POWERED AIRCRAFT**
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- SOLAR RADIATION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596
- SOLAR RADIATION SHIELDING**
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
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[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
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Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
- SOLAR RADIO EMISSION**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- SOLAR REFLECTORS**
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
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- Solar energy collection system
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- SOLAR SAILS**
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SOLAR SENSORS**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982
- SOLAR SIMULATORS**
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- SOLDERED JOINTS**
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- SOLDERING**
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- SOLDERS**
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- SOLENOID VALVES**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859
- SOLENOIDS**
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152
- SOLID CRYOGEN COOLING**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLID ELECTRODES**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SOLID LUBRICANTS**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- SOLID PHASES**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- SOLID PROPELLANT IGNITION**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- SOLID PROPELLANT ROCKET ENGINES**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SOLID PROPELLANTS**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- SOLID ROCKET BINDERS**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID ROCKET PROPELLANTS**
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID SOLUTIONS**
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301
- SOLID STATE**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- SOLID STATE DEVICES**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-MFP-08092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HON-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- SOLID SURFACES**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- SOLID WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

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- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- SOLIDIFICATION**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- SOLIDIFIED GASES**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLIDS FLOW**
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- SOLUBILITY**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SOLUTES**
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-14081-1] c 35 N74-27860
- SOLUTION**
Polyimides containing ATBN elastomers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
- SOLUTIONS**
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- SOLVENT EXTRACTION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
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[NASA-CASE-NPO-15767-1] c 23 N84-16255
- SOLVENTS**
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[NASA-CASE-NPO-14272-1] c 25 N81-33246
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Polyimides containing ATBN elastomers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
- SONAR**
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SONIC BOOMS**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- SORBATES**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- SORBENTS**
Solid sorbent air sampler
[NASA-CASE-MS-20653-1] c 35 N85-20301
- SORET COEFFICIENT**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- SOUND GENERATORS**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- SOUND LOCALIZATION**
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- SOUND PRESSURE**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- SOUND PROPAGATION**
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- SOUND RANGING**
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SOUND TRANSDUCERS**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- SOUND WAVES**
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307
- SOUNDING ROCKETS**
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- SPACE CAPSULES**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470
- SPACE CHARGE**
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211
- SPACE COMMUNICATION**
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
- SPACE ENVIRONMENT SIMULATION**
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
- SPACE ERECTABLE STRUCTURES**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MS-20635-1] c 18 N84-32424
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- SPACE EXPLORATION**
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- SPACE FLIGHT**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- SPACE FLIGHT FEEDING**
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Self-charging metering and dispensing device for fluids
[NASA-CASE-MS-20275-1] c 35 N85-21595
- SPACE INDUSTRIALIZATION**
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- SPACE MAINTENANCE**
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MS-18851-1] c 27 N82-26460
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

SPACE MANUFACTURING

- Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-12623-1] c 12 N75-24774
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

SPACE MISSIONS

- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

SPACE NAVIGATION

- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION

- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS

- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

SPACE PROBES

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACE PROCESSING

- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

SPACE RENDEZVOUS

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACE SHUTTLE BOOSTERS

- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE ORBITERS

- Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- High temperature emittance coatings and coating compositions — repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- SPACE SHUTTLE PAYLOADS**
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACE SHUTTLES

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Slide release mechanism — for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- SPACE SIMULATORS**
- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- SPACE STATIONS**
- Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- SPACE STORAGE**
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- SPACE SUITS**
- Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Biological isolation garment Patent
[NASA-CASE-MSC-12208-1] c 05 N71-17599
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Space suit

- [NASA-CASE-MSC-12609-1] c 05 N73-32012
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
- Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021
- Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666
- Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
- SPACE TOOLS**
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- SPACE TRANSPORTATION SYSTEM**
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- SPACE VEHICLE CHECKOUT PROGRAM**
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- SPACEBORNE TELESCOPES**
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- SPACECRAFT**
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- SPACECRAFT ANTENNAS**
- Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
- Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
 [NASA-CASE-GSC-12331-1] c 18 N80-14183
 Spiral slotted phased antenna array
 [NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES
 Thermal control wall panel Patent
 [NASA-CASE-XLA-01243] c 33 N71-22792
 Nonflammable coating compositions --- for use in high oxygen environments
 [NASA-CASE-MFS-20486-2] c 27 N74-17283
 Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
 [NASA-CASE-MSC-14771-1] c 54 N77-32722
 Solid sorbent air sampler
 [NASA-CASE-MSC-20653-1] c 35 N85-20301

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 Time division multiplex system
 [NASA-CASE-XGS-05918] c 07 N69-39974
 Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
 [NASA-CASE-XNP-00911] c 08 N70-41961
 Tracking receiver Patent
 [NASA-CASE-XGS-08679] c 10 N71-21473
 Omnidirectional microwave spacecraft antenna Patent
 [NASA-CASE-XLA-03114] c 09 N71-22888
 VHF/UHF parasitic probe antenna Patent
 [NASA-CASE-KKS-09340] c 07 N71-24614
 Rapid sync acquisition system Patent
 [NASA-CASE-NPO-10214] c 10 N71-26577
 Turnstile slot antenna
 [NASA-CASE-GSC-11428-1] c 32 N74-20864
 Switchable beamwidth monopulse method and system
 [NASA-CASE-GSC-11924-1] c 33 N76-27472
 Antenna feed system for receiving circular polarization and transmitting linear polarization
 [NASA-CASE-NPO-14362-1] c 32 N80-16261
 Common data buffer system --- communication with computational equipment utilized in spacecraft operations
 [NASA-CASE-KSC-11048-1] c 62 N81-24779
 Apparatus and method for determining the position of a radiant energy source
 [NASA-CASE-GSC-12147-1] c 32 N81-27341
 Reed-Solomon decoder --- applicable to Galileo Project requirements
 [NASA-CASE-NPO-15982-1] c 60 N85-20680

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 Electrical connector Patent Application
 [NASA-CASE-MFS-14741] c 09 N70-20737
 Vibration damping system Patent
 [NASA-CASE-XMS-01620] c 23 N71-15673
 Intermittent type silica gel adsorption refrigerator Patent
 [NASA-CASE-XNP-00920] c 15 N71-15906
 Omni-directional anisotropic molecular trap Patent
 [NASA-CASE-XGS-00783] c 30 N71-17788
 Spacecraft airlock Patent
 [NASA-CASE-XLA-02050] c 31 N71-22968
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Redundant actuating mechanism Patent
 [NASA-CASE-XGS-08718] c 15 N71-24600
 Space simulator Patent
 [NASA-CASE-NPO-10141] c 11 N71-24964
 Spacecraft Patent
 [NASA-CASE-MSC-13047-1] c 31 N71-25434
 Peak acceleration limiter for vibrational tester Patent
 [NASA-CASE-NPO-10556] c 14 N71-27185
 Solid state thermal control polymer coating Patent
 [NASA-CASE-XLA-01745] c 33 N71-28903
 Scientific experiment flexible mount
 [NASA-CASE-MSC-12372-1] c 31 N72-25842
 Airlock
 [NASA-CASE-MFS-20922-1] c 18 N74-22136
 Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
 [NASA-CASE-MFS-21680-1] c 18 N74-27397
 Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
 [NASA-CASE-MSC-14245-1] c 18 N75-27041
 High temperature penetrator assembly with bayonet plug and ramp-activated lock
 [NASA-CASE-MSC-18526-1] c 37 N82-24494
 Apparatus for releasably connecting first and second objects in predetermined space relationship
 [NASA-CASE-MSC-18969-1] c 18 N84-22605
 Aerospace vehicle
 [NASA-CASE-LAR-13155-1] c 05 N86-19310

SPACECRAFT CONFIGURATIONS
 Inflatable honeycomb Patent
 [NASA-CASE-XLA-00204] c 32 N70-36536
 Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924

Spacecraft separation system for spinning vehicles and/or payloads Patent
 [NASA-CASE-XLA-02132] c 31 N71-10582
 Space shuttle vehicle and system
 [NASA-CASE-MSC-12433] c 31 N73-14854
 Space vehicle
 [NASA-CASE-MFS-22734-1] c 18 N75-19329
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612
 Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
 [NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACECRAFT CONSTRUCTION MATERIALS
 Pressurized cell micrometeoroid detector Patent
 [NASA-CASE-XLA-00936] c 14 N71-14996
 Fluid impervious barrier including liquid metal alloy and method of making same Patent
 [NASA-CASE-XNP-08881] c 17 N71-28747
 Method of making a composite sandwich lattice structure
 [NASA-CASE-LAR-11898-2] c 24 N78-17149
 Fixture for environmental exposure of structural materials under compression load
 [NASA-CASE-LAR-12602-1] c 39 N83-32081

SPACECRAFT CONTROL
 Light sensitive digital aspect sensor Patent
 [NASA-CASE-XGS-00359] c 14 N70-34158
 Space vehicle attitude control Patent
 [NASA-CASE-XNP-00465] c 21 N70-35395
 Parachute glider Patent
 [NASA-CASE-XLA-00898] c 02 N70-36804
 Attitude control for spacecraft Patent
 [NASA-CASE-XNP-00294] c 21 N70-36938
 Attitude orientation of spin-stabilized space vehicles Patent
 [NASA-CASE-XLA-00281] c 21 N70-36943
 Hypersonic reentry vehicle Patent
 [NASA-CASE-XMS-04142] c 31 N70-41631
 Roll attitude star sensor system Patent
 [NASA-CASE-XNP-01307] c 21 N70-41856
 Canopus detector including automotive gain control of photomultiplier tube Patent
 [NASA-CASE-XNP-03914] c 21 N71-10771
 Spacecraft experiment pointing and attitude control system Patent
 [NASA-CASE-XLA-05464] c 21 N71-14132
 Attitude control system Patent
 [NASA-CASE-XGS-04393] c 21 N71-14159
 Reactance control system Patent
 [NASA-CASE-XMF-01598] c 21 N71-15583
 Spacecraft attitude detection system by stellar reference Patent
 [NASA-CASE-XGS-03431] c 21 N71-15642
 Inertial reference apparatus Patent
 [NASA-CASE-XAC-03107] c 23 N71-16098
 Construction and method of arranging a plurality of ion engines to form a cluster Patent
 [NASA-CASE-XNP-02923] c 28 N71-23081
 Ion beam deflector Patent
 [NASA-CASE-LEW-10689-1] c 28 N71-26173
 Heated porous plug microthruster
 [NASA-CASE-GSC-10640-1] c 28 N72-18766
 Flight control system
 [NASA-CASE-MSC-13397-1] c 21 N72-25595
 All sky pointing attitude control system
 [NASA-CASE-ARC-10716-1] c 35 N77-20399
 Three axis attitude control system
 [NASA-CASE-GSC-12970-1] c 08 N86-20396

SPACECRAFT DESIGN
 Lunar landing flight research vehicle Patent
 [NASA-CASE-XFR-00929] c 31 N70-34966
 Space capsule Patent
 [NASA-CASE-XLA-01332] c 31 N71-15664
 Spacecraft radiator cover Patent
 [NASA-CASE-MSC-12049] c 31 N71-16080
 Method and apparatus for securing to a spacecraft Patent
 [NASA-CASE-MFS-11133] c 31 N71-16222
 Aerodynamic protection for space flight vehicles Patent
 [NASA-CASE-XNP-02507] c 31 N71-17679
 Self supporting space vehicle Patent
 [NASA-CASE-XLA-00117] c 31 N71-17680
 Multi-mission module Patent
 [NASA-CASE-XMF-01543] c 31 N71-17730
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Spacecraft Patent
 [NASA-CASE-MSC-13047-1] c 31 N71-25434
 Emergency earth orbital escape device
 [NASA-CASE-MSC-13281] c 31 N72-18859
 Space vehicle
 [NASA-CASE-MFS-22734-1] c 18 N75-19329

Space vehicle system
 [NASA-CASE-MSC-12561-1] c 18 N76-17185
 Method and apparatus for neutralizing potentials induced on spacecraft surfaces
 [NASA-CASE-GSC-11963-1] c 33 N77-10429
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612
 Aerospace vehicle
 [NASA-CASE-LAR-13155-1] c 05 N86-19310

SPACECRAFT DOCKING
 Expanding center probe and drogue Patent
 [NASA-CASE-XMS-03613] c 31 N71-16346
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Latching mechanism Patent
 [NASA-CASE-MSC-15474-1] c 15 N71-26162
 Docking structure for spacecraft
 [NASA-CASE-MFS-20863] c 31 N73-26876
 Latch mechanism
 [NASA-CASE-MSC-12549-1] c 37 N74-27903
 Spacecraft docking and alignment system --- using television camera system
 [NASA-CASE-MSC-12559-1] c 18 N76-14186
 Multiple in-line docking capability for rotating space stations
 [NASA-CASE-MFS-20855-1] c 15 N77-10112
 Combined docking and grasping device
 [NASA-CASE-MFS-23088-1] c 37 N77-23483
 Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
 [NASA-CASE-NPO-14521-1] c 37 N81-27519
 Satellite retrieval system
 [NASA-CASE-MFS-25403-1] c 18 N83-29303
 Apparatus for releasably connecting first and second objects in predetermined space relationship
 [NASA-CASE-MSC-18969-1] c 18 N84-22605
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612
 Preloadable vector sensitive latch
 [NASA-CASE-MSC-20910-1] c 37 N86-19613
 Rotatable electric cable connecting system
 [NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACECRAFT ELECTRONIC EQUIPMENT
 Dynamic Doppler simulator Patent
 [NASA-CASE-XMS-05454-1] c 07 N71-12391
 Vacuum deposition apparatus Patent
 [NASA-CASE-XMF-01667] c 15 N71-17647
 Nose cone mounted heat resistant antenna Patent
 [NASA-CASE-XMS-04312] c 07 N71-22984
 Electrical self-aligning connector --- orbital servicer vehicles
 [NASA-CASE-MFS-25211-2] c 33 N84-14423
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACECRAFT ENVIRONMENTS
 Portable environmental control system Patent
 [NASA-CASE-XMS-09632-1] c 05 N71-11203
 Quick disconnect latch and handle combination Patent
 [NASA-CASE-MFS-11132] c 15 N71-17649
 Dual solid cryogenics for spacecraft refrigeration Patent
 [NASA-CASE-GSC-10188-1] c 23 N71-24725
 Dual stage check valve
 [NASA-CASE-MSC-13587-1] c 15 N73-30459
 Metering gun for dispensing precisely measured charges of fluid
 [NASA-CASE-MFS-21163-1] c 54 N74-17853
 Automatic thermal switch --- spacecraft applications
 [NASA-CASE-GSC-12553-1] c 34 N83-28356

SPACECRAFT GUIDANCE
 Ejection unit Patent
 [NASA-CASE-XNP-00676] c 15 N70-38996
 Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
 [NASA-CASE-XMF-00684] c 21 N71-21688
 Solar vane actuator Patent
 [NASA-CASE-XNP-05535] c 14 N71-23040
 Azimuth laying system Patent
 [NASA-CASE-XMF-01669] c 21 N71-23289
 Hermetic sealed vibration damper Patent
 [NASA-CASE-MSC-10959] c 15 N71-26243
 Echo tracker/range finder for radars and sonars
 [NASA-CASE-NPO-14361-1] c 32 N82-23376

SPACECRAFT INSTRUMENTS
 Mechanical coordinate converter Patent
 [NASA-CASE-XNP-00614] c 14 N70-36907
 Air bearing Patent
 [NASA-CASE-XMF-00339] c 15 N70-39896
 Folding boom assembly Patent
 [NASA-CASE-XGS-00938] c 32 N70-41367

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Spacecraft attitude control method and apparatus
[NASA-CASE-HCN-10439] c 21 N72-21624
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287
- SPACECRAFT LANDING**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- SPACECRAFT LAUNCHING**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- SPACECRAFT MODELS**
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- SPACECRAFT MODULES**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470
- SPACECRAFT MOTION**
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- SPACECRAFT PROPULSION**
- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SPACECRAFT RADIATORS**
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N84-32748
- SPACECRAFT RECOVERY**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
- Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614
- SPACECRAFT REENTRY**
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- SPACECRAFT SHIELDING**
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- SPACECRAFT STABILITY**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- SPACECRAFT STRUCTURES**
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
- Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- SPACECRAFT TELEVISION**
- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
- SPACECRAFT TRACKING**
- Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- SPACECREWS**
- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- SPACELAB PAYLOADS**
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- SPALLATION**
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- SPARK CHAMBERS**
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- SPARK GAPS**
- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- SPARK IGNITION**
- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- SPARK PLUGS**
- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- SPATIAL DISTRIBUTION**
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- SPATIAL FILTERING**
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- SPATIAL RESOLUTION**
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868

SPECTRAL BANDS

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016

SPECTRAL CORRELATION

Correlation spectrometer having high resolution and
multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE

Single reflector interference spectrometer and drive
system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY

Method and apparatus for enhancing laser absorption
sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777

SPECTRAL SIGNATURES

Multispectral imaging and analysis system --- using
charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Variable frequency nuclear magnetic resonance
spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

Dual purpose optical instrument capable of
simultaneously acting as spectrometer and
diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

Single reflector interference spectrometer and drive
system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

Resonant waveguide stark cell --- using microwave
spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Ion and electron detector for use in an ICR
spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Velocity servo for continuous scan Fourier interference
spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Visible and infrared polarization ratio
spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Correlation spectrometer having high resolution and
multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N86-20754

SPECTROPHOTOMETERS

Apparatus for producing three-dimensional recordings
of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

High resolution Fourier
interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

SPECTRORADIOMETERS

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

SPECTROSCOPIC ANALYSIS

Spectroscopic equipment using a slender cylindrical
reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

SPECTRUM ANALYSIS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Spectral method for monitoring atmospheric
contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

Method and apparatus for high resolution spectral
analysis
[NASA-CASE-NPO-10748] c 08 N72-20177

Stark cell optoacoustic detection of constituent gases
in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

SPECTULAR REFLECTION

Real time reflectometer --- measurement of specular
reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION

Method and apparatus for telemetry adaptive bandwidth
compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

SPEECH RECOGNITION

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL

System for maintaining a motor at a predetermined
speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Optimal control system for an electric motor driven
vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Two speed drive system --- mechanical device for
changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Low speed phase-lock speed control system --- for
brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Speed control device for a heavy duty shaft --- solar
sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

SPHERES

Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117

Method of forming frozen spheres in a force-free drop
tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

SPHERICAL SHELLS

Electrode and insulator with shielded dielectric
junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436

SPHERICAL TANKS

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

SPHYMOGRAPHY

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING

A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

SPIN DYNAMICS

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Stabilization of He2(a 3 Sigma u+) molecules in liquid
helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

SPIN REDUCTION

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

Spacecraft separation system for spinning vehicles
and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Method and means for damping nutation in a satellite
Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

Magnetic spin reduction system for free spinning
objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

SPIN STABILIZATION

Dynamic precession damper for spin stabilized vehicles
Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

Attitude orientation of spin-stabilized space vehicles
Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Spacecraft attitude detection system by stellar reference
Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Passive dual spin misalignment compensators ---
gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097

Deployable flexible ventral fins for use as an emergency
spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

Scanner --- photography from a spin stabilized
synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

SPINE

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPINNERS

Head for high speed spinner having a vacuum chuck
--- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

SPIRAL ANTENNAS

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPIRAL WRAPPING

Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

Continuous self-locking spiral wound seal --- for
maintaining pressure between chambers in cryogenic wind
tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALS (CONCENTRATORS)

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

SPIROMETERS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPLICING

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179

SPLINTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS

Hydraulic actuator mechanism to control aircraft spoiler
movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPORES

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS

Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

Automatic closed circuit television arc guidance control
Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS

Constant-output atomizer --- Inhalation therapy and
aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Fire extinguishing apparatus having a slidable mass for
a penetrator nozzle --- for penetrating aircraft and shuttle
orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

SPRAYED COATINGS

Method of making a diffusion bonded refractory coating
Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100

- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
Thermal barrier coating system having improved adhesion -
[NASA-CASE-LEW-1335901] c 27 N83-31855
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- SPRAYERS**
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- SPRAYING**
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- SPREAD SPECTRUM TRANSMISSION**
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- SPREADING**
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- SPRINGS (ELASTIC)**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- SPUTTERING**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587
- SQUARE WAVES**
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- SQUARES (MATHEMATICS)**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- SQUEEZE FILMS**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- SQUIBS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- STABILITY AUGMENTATION**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- STABILITY TESTS**
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- STABILIZATION**
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- STABILIZED PLATFORMS**
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- STABILIZERS**
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- STABILIZERS (AGENTS)**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- STABILIZERS (FLUID DYNAMICS)**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
- STABLE OSCILLATIONS**
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- STACKS**
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- STAGE SEPARATION**
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-KKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- STAGNATION PRESSURE**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- STAGNATION TEMPERATURE**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- STAINING**
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- STAINLESS STEELS**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- STAMPING**
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDARDS**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDING WAVES**
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- STAR TRACKERS**
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Sun tracker with rotatable plane-parallel plate and two phototubes Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

STARK EFFECT
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

STARTING
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

STATIC DEFORMATION
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307

STATIC DISCHARGERS
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

STATIC PRESSURE
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

STATIONKEEPING
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL CORRELATION
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS

Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Brushless DC motor control system responsive to control-signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

STEADY STATE

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

STEAM

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

STEAM TURBINES

Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

STEERABLE ANTENNAS

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

STEERING

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

STELLAR LUMINOSITY

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES

Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY

Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

STEREOSCOPIC VISION

Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

STEREOSCOPY

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STIMULATED EMISSION

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590

Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRRING

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-08956] c 15 N71-21177

STOICHIOMETRY

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987

STORAGE

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435

Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605

Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129

Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

STORAGE STABILITY

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

Expulsion pladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STOWAGE (ONBOARD EQUIPMENT)

Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

STRAIN GAGE ACCELEROMETERS

Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799

Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

STRAIN GAGES

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- STRAIN MEASUREMENT**
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- STRAIN RATE**
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- STRAKES**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- STRAPDOWN INERTIAL GUIDANCE**
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- STRAPS**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- STRATIGRAPHY**
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- STREAMS**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- STRESS ANALYSIS**
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- STRESS CONCENTRATION**
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- STRESS CORROSION**
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- STRESS MEASUREMENT**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307
- STRESS RELAXATION**
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- STRESS RELIEVING**
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- STRESSES**
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- STRETCHERS**
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- STRETCHING**
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- STRINGS**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- STRIP TRANSMISSION LINES**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- STRUCTURAL ANALYSIS**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- STRUCTURAL DESIGN**
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- STRUCTURAL DESIGN CRITERIA**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
- Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- STRUCTURAL ENGINEERING**
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- STRUCTURAL FAILURE**
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- STRUCTURAL MEMBERS**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Oaze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- STRUCTURAL STABILITY**
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799
- STRUCTURAL VIBRATION**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- STRUCTURES**
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- STRUTS**
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Collapse structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
- STUDS (STRUCTURAL MEMBERS)**
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- STYRENES**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- SUBASSEMBLIES**
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- SUBCRITICAL FLOW**
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SUBLIMATION**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- SUBMARINES**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- SUBMERGING**
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- SUBMILLIMETER WAVES**
Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779
- SUBMINIATURIZATION**
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- SUBREFLECTORS**
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- SUBSONIC FLOW**
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- SUBSONIC SPEED**
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- SUBSONIC WIND TUNNELS**
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- SUBSTRATES**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N82-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
A process to produce fine line metallic collection patterns on semiconductor devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- SUBSTRUCTURES**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281
- SUCTION**
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

SUGARS

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

SULFATES

- Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

SULFIDES

- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

SULFONES

- Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

SULFONIC ACID

- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS

- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

SULFUR DIOXIDES

- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584

SULFURIC ACID

- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

SUM RULES

- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

SUMPS

- Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152

SUN

- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

SUNGLASSES

- Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUNLIGHT

- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N86-20803

SUPERCHARGERS

- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

SUPERCONDUCTING MAGNETS

- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

SUPERCONDUCTIVITY

- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MS-C-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

SUPERCONDUCTORS

- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

SUPERCOOLING

- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCritical FLUIDS

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCritical PRESSURES

- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY

- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES

- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERPLASTICITY

- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSONIC AIRCRAFT

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

SUPERSONIC COMBUSTION

- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW

- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

SUPERSONIC INLETS

- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- SUPERSONIC NOZZLES**
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- SUPERSONIC SPEEDS**
- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- SUPERSONIC TRANSPORTS**
- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- SUPERSONIC WIND TUNNELS**
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- SUPPLYING**
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- SUPPORT INTERFERENCE**
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- SUPPORT SYSTEMS**
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- SUPPORTS**
- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- SUPPRESSORS**
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- SURFACE ACOUSTIC WAVE DEVICES**
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- SURFACE CRACKS**
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- SURFACE DEFECTS**
- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- SURFACE DIFFUSION**
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- SURFACE FINISHING**
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- A process to produce fine line metallic collection patterns on semiconductor devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
- A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
- SURFACE IONIZATION**
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SURFACE LAYERS**
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- SURFACE PROPERTIES**
- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587
- SURFACE REACTIONS**
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
- SURFACE ROUGHNESS**
- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- SURFACE ROUGHNESS EFFECTS**
- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- SURFACE TEMPERATURE**
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- SURFACE VEHICLES**
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452
- SURFACE WAVES**
- Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- SURFACES**
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- SURFACTANTS**
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- SURGERY**
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- SURGES**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- SURGICAL INSTRUMENTS**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- SURVIVAL EQUIPMENT**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
- SUSPENDING (HANGING)**
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- SUSPENSION SYSTEMS (VEHICLES)**
Suspension system for a wheel rolling on a flat track
--- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- SWEAT**
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- SWEAT COOLING**
Transpiration cooled turbine blade manufactured from
wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- SWEEP CIRCUITS**
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
- SWEEP EFFECT**
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- SWEEP FREQUENCY**
Sweep group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- SWELLING**
Intumescent composition, foamed product prepared
therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- SWEPT WINGS**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Leading edge vortex flaps for drag reduction --- during
subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- SWIRLING**
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- SWITCHES**
Switching mechanism with energy storage means
Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location
is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching
optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF
sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOs microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

SWITCHING

- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- SWITCHING CIRCUITS**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon
devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected
complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching
Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XMF-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver
Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor
Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times
Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits
Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Inverter with means for base current shaping for
sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Control apparatus for applying pulses of selectively
predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and means for providing an absolute power
measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Compensating bandwidth switching transients in an
amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR
gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

- Pressure operated electrical switch responsive to a
pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Isolated output system for a class D switching-mode
amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Multi-computer multiple data path hardware exchange
system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Module failure isolation circuit for paralleled inverters
--- preventing system failure during power conditioning for
spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
System for automatically switching transformer coupled
lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Push-pull converter with energy saving circuit for
protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Active lamp pulse driver circuit --- optical pumping of
laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
Four quadrant control circuit for a brushless three phase
dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682
- SWITCHING THEORY**
Multiple circuit switch apparatus with improved pivot
actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- SWIVELS**
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- SYNCHRONISM**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM
communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and
means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input
impedance and low output impedance and capacitor power
supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected
coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- SYNCHRONIZED OSCILLATORS**
Phase demodulation system with two phase locked loops
Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage
controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous
switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- SYNCHRONIZERS**
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12462-1] c 32 N74-20809
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12494-1] c 32 N74-20810
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
- SYNCHRONOUS MOTORS**
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
- SYNCHRONOUS SATELLITES**
- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Serrordyne frequency converter re-entrant amplifier system Patent
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- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- SYNTHESIS**
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- SYNTHESIS (CHEMISTRY)**
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-26987
- Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Polyimides containing ATBN elastomers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
- Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685
- SYNTHESIZERS**
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- SYNTHETIC APERTURE RADAR**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- SYNTHETIC FIBERS**
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-12109] c 18 N71-26285
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-14331-3] c 27 N78-32262
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- SYNTHETIC FUELS**
- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- SYNTHETIC RESINS**
- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- SYNTHETIC RUBBERS**
- Process for the preparation of polycarbonarylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- SYRINGES**
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- SYSTEM EFFECTIVENESS**
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- SYSTEM FAILURES**
- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-12531-1] c 35 N75-30504
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- SYSTEMS ANALYSIS**
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- SYSTEMS ENGINEERING**
- Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-12111-1] c 02 N71-11039
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

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Sealed electrochemical cell provided with a flexible casing Patent
 [NASA-CASE-XGS-01513] c 03 N71-23336
 Extended area semiconductor radiation detectors and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c 14 N71-23401
 Floating two force component measuring device Patent
 [NASA-CASE-XAC-04885] c 14 N71-23790
 Transducer circuit and catheter transducer Patent
 [NASA-CASE-ARC-10132-1] c 09 N71-24597
 Method of attaching a cover glass to a silicon solar cell Patent
 [NASA-CASE-XLE-08569-2] c 03 N71-24681
 Attitude control system for sounding rockets Patent
 [NASA-CASE-XGS-01654] c 31 N71-24750
 Temperature telemetric transmitter Patent
 [NASA-CASE-NPO-10649] c 07 N71-24840
 Tuning arrangement for an electron discharge device or the like Patent
 [NASA-CASE-XNP-09771] c 09 N71-24841
 Broadband modified turnstile antenna Patent
 [NASA-CASE-MSC-12209] c 09 N71-24842
 Apparatus for determining the deflection of an electron beam impinging on a target Patent
 [NASA-CASE-XMF-06617] c 09 N71-24843
 BCD to decimal decoder Patent
 [NASA-CASE-XKS-06167] c 08 N71-24890
 Noninterruptible digital counting system Patent
 [NASA-CASE-XNP-09759] c 08 N71-24891
 Duct coupling for single-handed operation Patent
 [NASA-CASE-MFS-20395] c 15 N71-24903
 Brushless direct current tachometer Patent
 [NASA-CASE-MFS-20385] c 09 N71-24904
 Quick release hook tape Patent
 [NASA-CASE-XMS-10660-1] c 15 N71-25975
 Internal work light Patent
 [NASA-CASE-XKS-05932] c 09 N71-26787
 Apparatus for inspecting microfilm Patent
 [NASA-CASE-MFS-20240] c 14 N71-26788
 Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
 [NASA-CASE-NPO-10778] c 14 N72-11364
 Optimum performance spacecraft solar cell system
 [NASA-CASE-GSC-10669-1] c 03 N72-20031
 Electric storage battery
 [NASA-CASE-NPO-11021] c 03 N72-20032
 Spacecraft attitude control method and apparatus
 [NASA-CASE-HQN-10439] c 21 N72-21624
 Light sensor
 [NASA-CASE-NPO-11311] c 14 N72-25414
 Flight control system
 [NASA-CASE-MSC-13397-1] c 21 N72-25595
 Program for computer aided reliability estimation
 [NASA-CASE-NPO-13086-1] c 15 N73-12495
 Measurement system
 [NASA-CASE-MFS-20658-1] c 14 N73-30386
 Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
 [NASA-CASE-ARC-10444-1] c 16 N73-33397
 System for calibrating pressure transducer
 [NASA-CASE-LAR-10910-1] c 35 N74-13132
 Three mirror glancing incidence system for X-ray telescope
 [NASA-CASE-MFS-21372-1] c 74 N74-27866
 Holographic system for nondestructive testing
 [NASA-CASE-MFS-21704-1] c 35 N75-25124
 Compact pulsed laser having improved heat conductance
 [NASA-CASE-NPO-13147-1] c 36 N77-25502
 Tetherline system for orbiting satellites
 [NASA-CASE-MFS-23564-1] c 15 N78-25119
 Non-tracking solar energy collector system
 [NASA-CASE-NPO-13813-1] c 44 N78-31526
 Horizontally mounted solar collector
 [NASA-CASE-MFS-23349-1] c 44 N79-23481
 Contour measurement system
 [NASA-CASE-MFS-23726-1] c 43 N79-26439
 Redundant motor drive system
 [NASA-CASE-MFS-23777-1] c 37 N80-32716
 System for sterilizing objects --- cleaning space vehicle systems
 [NASA-CASE-KSC-11085-1] c 54 N81-24724
 A system for controlling the oxygen content of a gas produced by combustion
 [NASA-CASE-LAR-13257-1] c 25 N84-32447
 Multiplex electric discharge gas laser system
 [NASA-CASE-NPO-16433-1] c 36 N86-20778

SYSTEMS INTEGRATION
 Liquid hydrogen polygeneration system and process
 [NASA-CASE-KSC-11304-1] c 28 N84-29017

TABS (CONTROL SURFACES)

Aircraft rotor blade with passive tuned tab
 [NASA-CASE-ARC-11444-1] c 05 N85-29947

TACHOMETERS

Digital cardiograph system Patent
 [NASA-CASE-XMS-02399] c 05 N71-22896
 Brushless direct current tachometer Patent
 [NASA-CASE-MFS-20385] c 09 N71-24904
 Ratemeter
 [NASA-CASE-MFS-20418] c 14 N73-24473
 Tachometer
 [NASA-CASE-MFS-23175-1] c 35 N77-30436
 Shaft transducer having dc output proportional to angular velocity
 [NASA-CASE-NPO-15706-1] c 35 N84-28017

TACKINESS

Structural pressure sensitive silicone adhesives
 [NASA-CASE-LAR-13270-1] c 27 N84-32532

TAIL ASSEMBLIES

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
 [NASA-CASE-MSC-18422-1] c 37 N82-16408
 Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
 [NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF

Airplane take-off performance indicator Patent
 [NASA-CASE-XLA-00100] c 14 N70-36807
 Aircraft instrument Patent
 [NASA-CASE-XLA-00487] c 14 N70-40157

TANGENTS

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
 [NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY

Tank construction for space vehicles Patent
 [NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS

Tanker orbit transfer vehicle and method
 [NASA-CASE-MSC-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)

Improvements in tank tread assemblies
 [NASA-CASE-NPO-16321-1] c 37 N85-29291

TANKS (CONTAINERS)

Penetrating radiation system for detecting the amount of liquid in a tank Patent
 [NASA-CASE-MSC-12280] c 27 N71-16348
 Method for leakage testing of tanks Patent
 [NASA-CASE-MXF-02392] c 32 N71-24285
 Floating baffle to improve efficiency of liquid transfer from tanks
 [NASA-CASE-KSC-10639] c 15 N73-26472
 Method of producing a storage bulb for an atomic hydrogen maser
 [NASA-CASE-NPO-13050-1] c 36 N75-15029

TANTALUM

Thermionic tantalum emitter doped with oxygen Patent
 Application
 [NASA-CASE-NPO-11138] c 03 N70-34646
 Arc electrode of graphite with ball tip Patent
 [NASA-CASE-XLE-04788] c 09 N71-22987
 Trialkyl-dihaloaluminum and niobium compounds Patent
 [NASA-CASE-XNP-04023] c 06 N71-28808
 Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
 [NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS

Evaporant holder
 [NASA-CASE-XLA-03105] c 15 N69-27483
 Tantalum modified ferritic iron base alloys
 [NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES

Thermal shock and erosion resistant tantalum carbide ceramic material
 [NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES

Thin film temperature sensor and method of making same
 [NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS

Plural recorder system
 [NASA-CASE-XMS-06949] c 09 N69-21467
 Endless tape transport mechanism Patent
 [NASA-CASE-XGS-01223] c 07 N71-10609
 Low friction magnetic recording tape Patent
 [NASA-CASE-XGS-00373] c 23 N71-15978
 Tape guidance system and apparatus for the provision thereof Patent
 [NASA-CASE-XNP-09453] c 08 N71-19420
 Synchronous servo loop control system Patent
 [NASA-CASE-XNP-03744] c 10 N71-20448
 Incremental tape recorder and data rate converter Patent
 [NASA-CASE-XNP-02778] c 08 N71-22710

Digital telemetry system Patent
 [NASA-CASE-XGS-01812] c 07 N71-23001
 Tape recorder Patent
 [NASA-CASE-XGS-08259] c 14 N71-23698
 Transient video signal recording with expanded playback Patent
 [NASA-CASE-ARC-10003-1] c 09 N71-25866
 A dc servosystem including an ac motor Patent
 [NASA-CASE-NPO-10700] c 07 N71-33613
 Recorder using selective noise filter
 [NASA-CASE-ERC-10112] c 07 N72-21119
 Scan converting video tape recorder
 [NASA-CASE-NPO-10166-1] c 07 N73-22076
 Scan converting video tape recorder
 [NASA-CASE-NPO-10166-2] c 35 N76-16391
 Method of and means for testing a tape record/playback system
 [NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS

Method of making a rocket motor casing Patent
 [NASA-CASE-XLE-00409] c 28 N71-15658
 Rocket motor casing Patent
 [NASA-CASE-XLE-05689] c 28 N71-15659

TARGET ACQUISITION

Acquisition and tracking system for optical radar
 [NASA-CASE-MFS-20125] c 16 N72-13437
 Target acquisition antenna
 [NASA-CASE-GSC-10064-1] c 10 N72-22235
 Intruder detection system
 [NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION

Electronic background suppression method and apparatus for a field scanning sensor
 [NASA-CASE-XGS-05211] c 07 N69-39980

TARGET SIMULATORS

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
 [NASA-CASE-MFS-23052-2] c 74 N79-13855
 Synthetic aperture radar target simulator
 [NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
 [NASA-CASE-NPO-14596-1] c 31 N81-33319
 Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
 [NASA-CASE-NPO-14596-3] c 31 N83-31896

TEETH

Acoustic tooth cleaner
 [NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)

Bonding of reinforced Teflon to metals
 [NASA-CASE-MFS-20482] c 15 N72-22492
 Method of producing a storage bulb for an atomic hydrogen maser
 [NASA-CASE-NPO-13050-1] c 36 N75-15029
 Lead-oxygen dc power supply system having a closed loop oxygen and water system
 [NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION

Adaptive compression of communication signals Patent
 [NASA-CASE-XLA-03076] c 07 N71-11266
 Means for generating a sync signal in an FM communication system Patent
 [NASA-CASE-XNP-10830] c 07 N71-11281
 Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
 [NASA-CASE-XNP-05254] c 07 N71-20791
 Digital synchronizer Patent
 [NASA-CASE-NPO-10851] c 07 N71-24613
 Minimal logic block encoder Patent
 [NASA-CASE-NPO-10595] c 10 N71-25917
 Two carrier communication system with single transmitter
 [NASA-CASE-NPO-11548] c 07 N73-26118
 Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
 [NASA-CASE-XNP-03623] c 09 N73-28084
 Coherent receiver employing nonlinear coherence detection for carrier tracking
 [NASA-CASE-NPO-11921-1] c 32 N74-30523
 Pseudo-noise test set for communication system evaluation --- test signals
 [NASA-CASE-MFS-22671-1] c 35 N75-21582
 Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
 [NASA-CASE-GSC-11743-1] c 32 N75-24981
 Method and apparatus for quadriphase-shift-key and linear phase modulation
 [NASA-CASE-NPO-14444-1] c 33 N81-15192

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

TELEPHONES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELESCOPES
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868

TELETYPEWRITER SYSTEMS
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

TELEVISION EQUIPMENT

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

TELEVISION TRANSMISSION

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

TEMPERATURE DISTRIBUTION
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

TEMPERATURE EFFECTS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

TEMPERATURE GRADIENTS

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019

Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254

Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039

Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524

Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

TEMPERATURE MEASURING INSTRUMENTS

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631

TEMPERATURE SENSORS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-18627-1] c 74 N82-30071

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085

TEMPLATES

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

TENSILE STRENGTH

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794

Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

TENSILE STRESS

Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

TENSILE TESTS

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364

Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

TENSION

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TERMINAL GUIDANCE

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420

Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746

Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS

Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

TERRAIN

Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

TERRAIN ANALYSIS

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

TEST CHAMBERS

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042

Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985

Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-20622-1] c 25 N86-19413

TEST EQUIPMENT

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625

Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MS-15158-1] c 14 N72-17325

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323

Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019

Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

TEST FACILITIES

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

TEST VEHICLES

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING

Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

TETHERLINES

Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

TETRAETHYL ORTHOSILICATE

Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES

Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTURES

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL COMFORT

Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

THERMAL CONDUCTORS

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180

Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

Improved thermal barrier coating system
[NASA-CASE-LEW-13324-1] c 26 N82-26431

High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

THERMAL DEGRADATION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

THERMAL DIFFUSIVITY

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

THERMAL ENERGY

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581

Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

THERMAL EXPANSION

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

THERMAL FATIGUE

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323

Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881

Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Auger attachment method for insulation --- of spacecraft
 [NASA-CASE-MSC-12615-1] c 37 N76-19437
 Flexible pile thermal barrier insulator
 [NASA-CASE-MSC-19568-1] c 34 N78-25350
 Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
 [NASA-CASE-MSC-12619-2] c 27 N79-12221
 Fibrous refractory composite insulation --- shielding reusable spacecraft
 [NASA-CASE-ARC-11169-1] c 24 N79-24062
 Thermal insulation protection means
 [NASA-CASE-MSC-12737-1] c 24 N79-25142
 Installing fiber insulation
 [NASA-CASE-MSC-16973-1] c 37 N81-14317
 Process for the preparation of polycarbonylphosphazenes --- thermal insulation
 [NASA-CASE-ARC-11176-2] c 27 N81-27271
 Carbonylphosphazenes and their polymers --- thermal insulation
 [NASA-CASE-ARC-11176-1] c 27 N82-18389
 A method and technique for installing light-weight fragile, high-temperature fiber insulation
 [NASA-CASE-MSC-18934-3] c 24 N82-26387
 Thermal garment
 [NASA-CASE-XMS-03694-1] c 54 N82-29002
 Method and technique for installing light-weight, fragile, high-temperature fiber insulation
 [NASA-CASE-MSC-16934-3] c 24 N84-16262
 Insulation bonding test system
 [NASA-CASE-MFS-25862-1] c 27 N85-20126
 Cryogenic insulation strength and bond tester
 [NASA-CASE-MFS-25910-1] c 39 N86-20841

THERMAL PLASMAS
 Continuous plasma light source
 [NASA-CASE-XNP-04167-2] c 25 N72-24753

THERMAL PROTECTION
 Thermo-protective device for balances Patent
 [NASA-CASE-XAC-00648] c 14 N70-40400
 Ablation structures Patent
 [NASA-CASE-XMS-01816] c 33 N71-15623
 Spacecraft radiator cover Patent
 [NASA-CASE-MSC-12049] c 31 N71-16080
 Foamed in place ceramic refractory insulating material Patent
 [NASA-CASE-XGS-02435] c 18 N71-22998
 Ceramic insulation for radiant heating environments and method of preparing the same Patent
 [NASA-CASE-MFS-14253] c 33 N71-24858
 Solid state thermal control polymer coating Patent
 [NASA-CASE-XLA-01745] c 33 N71-28903
 Temperature reducing coating for metals subject to flame exposure Patent
 [NASA-CASE-XLE-00035] c 33 N71-29151
 Stand-off type ablative heat shield
 [NASA-CASE-MSC-12143-1] c 33 N72-17947
 Flexible fire retardant foam
 [NASA-CASE-ARC-10180-1] c 28 N72-20767
 Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
 [NASA-CASE-ARC-10180-1] c 27 N74-12814
 Adjustable securing base
 [NASA-CASE-MSC-19666-1] c 37 N78-17383
 Reaction cured glass and glass coatings
 [NASA-CASE-ARC-11051-1] c 27 N78-32260
 Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
 [NASA-CASE-LEW-13088-1] c 26 N81-25188
 Thermal protection system
 [NASA-CASE-MSC-18796-1] c 24 N82-26389
 Attachment system for silica tiles --- thermal protection for space shuttle orbiter
 [NASA-CASE-MSC-18741-1] c 27 N82-29456
 Multiwall thermal protection system
 [NASA-CASE-LAR-12620-1] c 24 N82-32417
 High temperature silicon carbide impregnated insulating fabrics
 [NASA-CASE-MSC-18832-1] c 27 N83-18908
 Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
 [NASA-CASE-LEW-13343] c 26 N83-31795
 Thermal barrier coating system having improved adhesion
 [NASA-CASE-LEW-1335901] c 27 N83-31855
 Covering solid, film cooled surfaces with a duplex thermal barrier coating
 [NASA-CASE-LEW-13450-1] c 31 N83-35177
 Pre-stressed thermal protection systems
 [NASA-CASE-MSC-20254-1] c 16 N84-22601
 Shell tile thermal protection system
 [NASA-CASE-LAR-12862-1] c 27 N84-27886
 Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
 [NASA-CASE-LAR-13353-1] c 27 N85-20128

Process for preparing highly optically transparent-colorless aromatic polyimide film
 [NASA-CASE-LAR-13351-1] c 27 N85-21360

THERMAL RADIATION
 Compensating radiometer
 [NASA-CASE-XLA-04556] c 14 N69-27484
 Temperature sensitive capacitor device
 [NASA-CASE-XNP-09750] c 14 N69-39937
 High temperature heat source Patent
 [NASA-CASE-XLE-00490] c 33 N70-34545
 Thermal radiation shielding Patent
 [NASA-CASE-XLE-03432] c 33 N71-24145
 Cavity radiometer Patent
 [NASA-CASE-XNP-08961] c 14 N71-24809
 Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
 [NASA-CASE-XNP-01310] c 33 N71-28852
 Instrumentation for sensing moisture content of material using a transient thermal pulse
 [NAS 1.71:NPO-15494-2] c 35 N85-34373

THERMAL REACTORS
 Non-equilibrium radiation nuclear reactor
 [NASA-CASE-HQN-10841-1] c 73 N78-19920

THERMAL RESISTANCE
 Diode and protection fuse unit Patent
 [NASA-CASE-XKS-03381] c 09 N71-22796
 Polyimide foam for the thermal insulation and fire protection
 [NASA-CASE-ARC-10464-1] c 27 N74-12812
 Dual measurement ablation sensor
 [NASA-CASE-LAR-10105-1] c 34 N74-15652
 Self-regulating proportionally controlled heating apparatus and technique
 [NASA-CASE-GSC-11752-1] c 77 N75-20140
 Heat resistant polymers of oxidized styrylphosphine
 [NASA-CASE-MSC-14903-1] c 27 N78-32256
 Ambient cure polyimide foams --- thermal resistant foams
 [NASA-CASE-ARC-11170-1] c 27 N79-11215
 The 1,2,4-oxadiazole elastomers --- heat resistant polymers
 [NASA-CASE-ARC-11253-1] c 27 N81-17262
 Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
 [NASA-CASE-MSC-18422-1] c 37 N82-16408
 Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
 [NASA-CASE-ARC-11421-1] c 27 N84-16340
 Heat resistant protective hand covering
 [NASA-CASE-MSC-20261-2] c 54 N84-23113
 Heat resistant protective hand covering
 [NASA-CASE-MSC-20261-1] c 54 N84-28484
 Thermal barrier coating system
 [NASA-CASE-LEW-13324-2] c 24 N85-21266
 Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
 [NASA-CASE-ARC-11512-2] c 27 N85-21362
 Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
 [NASA-CASE-ARC-11533-1] c 27 N85-21364
 High temperature polyimide film laminates and process for preparation thereof
 [NASA-CASE-LAR-13384-1] c 27 N86-20561
 Flexible diaphragm: Extreme temperature usage
 [NASA-CASE-MSC-20797-1] c 37 N86-20806

THERMAL SHOCK
 Thermal shock apparatus Patent
 [NASA-CASE-XLE-02024] c 14 N71-22964
 Thermal shock resistant hafnia ceramic material
 [NASA-CASE-LAR-10894-1] c 18 N73-14584
 Thermal shock and erosion resistant tantalum carbide ceramic material
 [NASA-CASE-LAR-11902-1] c 27 N78-17206
 Laser surface fusion of plasma sprayed ceramic turbine seals
 [NASA-CASE-LEW-13269-1] c 18 N83-20996

THERMAL SIMULATION
 Thermopile vacuum gage tube simulator Patent
 [NASA-CASE-XLA-02758] c 14 N71-18481

THERMAL STABILITY
 Bonded solid lubricant coating Patent
 [NASA-CASE-XMS-00259] c 18 N70-36400
 Portable environmental control system Patent
 [NASA-CASE-XMS-09632-1] c 05 N71-11203
 Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
 [NASA-CASE-HQN-10364] c 06 N71-27363
 Method of making a cermet Patent
 [NASA-CASE-LEW-10219-1] c 18 N71-28729
 Ultraviolet and thermally stable polymer compositions
 [NASA-CASE-ARC-10592-1] c 27 N74-21156
 Ultraviolet and thermally stable polymer compositions
 [NASA-CASE-ARC-10592-2] c 27 N76-32315

Sound-suppressing structure with thermal relief
 [NASA-CASE-LEW-12658-1] c 71 N79-14871
 Infusible silazane polymer and process for producing same --- protective coatings
 [NASA-CASE-XMF-02526-1] c 27 N79-21190
 Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
 [NASA-CASE-LEW-12053-2] c 27 N79-28307
 Aluminum ion-containing polyimide adhesives
 [NASA-CASE-LAR-12640-1] c 27 N82-11206
 Low temperature cross linking polyimides
 [NASA-CASE-LEW-12876-2] c 27 N83-29392
 Process for preparing phthalocyanine polymers
 [NASA-CASE-ARC-11511-1] c 23 N84-16259
 Metal phthalocyanine polymers
 [NASA-CASE-ARC-11405-1] c 27 N84-27884
 Sulfone-ester polymers containing pendent ethynyl groups
 [NASA-CASE-LAR-13316-1] c 27 N84-28987
 High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
 [NASA-CASE-LEW-13864-1] c 27 N86-19457
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-2] c 27 N86-21675

THERMAL STRESSES
 Strain gage Patent Application
 [NASA-CASE-FRC-10053] c 14 N70-35587
 Multilegged support system Patent
 [NASA-CASE-XLA-01326] c 11 N71-21481
 Low cycle fatigue testing machine
 [NASA-CASE-LAR-10270-1] c 32 N72-25877
 Apparatus and method for reducing thermal stress in a turbine rotor
 [NASA-CASE-LEW-12232-1] c 07 N79-10057
 Method for alleviating thermal stress damage in laminates --- metal matrix composites
 [NASA-CASE-LEW-12493-1] c 24 N81-17170
 Method for alleviating thermal stress damage in laminates
 [NASA-CASE-LEW-12493-2] c 24 N81-26179
 Fully plasma-sprayed compliant backed ceramic turbine seal
 [NASA-CASE-LEW-13268-2] c 37 N82-26674
 Daze fasteners
 [NASA-CASE-LAR-13009-1] c 37 N85-29285

THERMIONIC CATHODES
 Cavity emitter for thermionic converter Patent
 [NASA-CASE-NPO-10412] c 09 N71-28421

THERMIONIC CONVERTERS
 Triode thermionic energy converter
 [NASA-CASE-XLE-01015] c 03 N69-39898
 Thermionic converter with current augmented by self induced magnetic field Patent
 [NASA-CASE-XLE-01903] c 22 N71-23599
 Cavity emitter for thermionic converter Patent
 [NASA-CASE-NPO-10412] c 09 N71-28421
 Solar cell Patent
 [NASA-CASE-ARC-10050] c 03 N71-33409
 Uninsulated in-core thermionic diode
 [NASA-CASE-NPO-10542] c 09 N72-27228
 High current electrical lead --- for thermionic converters
 [NASA-CASE-LEW-10950-1] c 33 N74-27683
 Electric power generation system directory from laser power
 [NASA-CASE-NPO-13308-1] c 36 N75-30524
 Nuclear thermionic converter --- tungsten-thorium oxide rods
 [NASA-CASE-NPO-13121-1] c 73 N77-18891
 High thermal power density heat transfer --- thermionic converters
 [NASA-CASE-LEW-12950-1] c 34 N82-11399
 Thermionic energy converters
 [NASA-CASE-LEW-12443-1] c 44 N83-32175

THERMIONIC DIODES
 Heat pipe thermionic diode power system Patent
 [NASA-CASE-XMF-05843] c 03 N71-11055
 Thermionic diode switch Patent
 [NASA-CASE-NPO-10404] c 03 N71-12255
 Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
 [NASA-CASE-XNP-00384] c 09 N71-13530
 Power system with heat pipe liquid coolant lines Patent
 [NASA-CASE-MFS-14114] c 33 N71-27862
 Uninsulated in-core thermionic diode
 [NASA-CASE-NPO-10542] c 09 N72-27228

THERMIONIC EMITTERS
 Thermionic tantalum emitter doped with oxygen Patent Application
 [NASA-CASE-NPO-11138] c 03 N70-34646

THERMIONIC POWER GENERATION
 Control for nuclear thermionic power source
 [NASA-CASE-NPO-13114-2] c 73 N78-28913

- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- THERMISTORS**
- Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- THERMOCHEMISTRY**
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- THERMOCHROMATIC MATERIALS**
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- THERMOCOUPLE PYROMETERS**
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- THERMOCOUPLES**
- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- THERMODYNAMIC CYCLES**
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- THERMODYNAMIC EFFICIENCY**
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MS-C-18807-1] c 37 N83-36483
- THERMODYNAMIC PROPERTIES**
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- THERMOELECTRIC GENERATORS**
- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- THERMOELECTRIC MATERIALS**
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- THERMOELECTRIC POWER GENERATION**
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- THERMOELECTRICITY**
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- THERMOLUMINESCENCE**
- Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- THERMOMAGNETIC EFFECTS**
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Thermomagnetic recording and magneto-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
- THERMOMETERS**
- Platinum resistance thermometer circuit
[NASA-CASE-MS-C-12327-1] c 35 N77-27368
- THERMOPHYSICAL PROPERTIES**
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- THERMOPILES**
- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- THERMOPLASTIC FILMS**
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-C-18382-2] c 27 N84-14324
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- THERMOPLASTIC RESINS**
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Phenoxyl resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- THERMOPLASTICITY**
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-C-18382-1] c 27 N82-16238
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564
- Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
- THERMOREGULATION**
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- THERMOSETTING RESINS**
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- THERMOSTATS**
- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- THICK FILMS**
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- THICKNESS**
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
- THIN FILMS**
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Means and methods of depositing thin films on substrates. Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170

Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784

Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740

Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325

A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

THIN PLATES

Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435

Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

THIN WALLED SHELLS

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

THIN WALLS

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

THORIUM FLUORIDES

Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

THORIUM OXIDES

Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

THREADS

Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

THREE AXIS STABILIZATION

Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

THREE DIMENSIONAL MOTION

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

THRESHOLD GATES

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

THRESHOLD LOGIC

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

THROATS

Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

THRUST AUGMENTATION

Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Reversed flow inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS

Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

THRUST CONTROL

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

THRUST LOADS

Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

THRUST MEASUREMENT

Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

THRUST REVERSAL

Thrust reversal for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

THRUST VECTOR CONTROL

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773

System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

THRUST-WEIGHT RATIO

Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

THYRISTORS

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

TILES

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460

Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

TILT WING AIRCRAFT

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

TIME CONSTANT

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

TIME DEPENDENCE

Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

TIME DISCRIMINATION

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

TIME DIVISION MULTIPLEXING

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624

High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151

TIME FUNCTIONS

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

TIME LAG

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TIME MEASUREMENT

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620

TIME MEASURING INSTRUMENTS

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

TIME OF FLIGHT SPECTROMETERS

Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

TIME SERIES ANALYSIS

Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240

TIME SHARING

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

TIME SIGNALS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

TIME SHARING

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

TIMING DEVICES

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

TIPS

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

TIRES

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

TISSUES (BIOLOGY)

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

TITANATES

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM

Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

TITANIUM ALLOYS

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

TITANIUM NITRIDES

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

TOLERANCES (MECHANICS)

Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

TOLUENE

Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

TOMOGRAPHY

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

TOOLS

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

TOOTH DISEASES

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY

Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

TORCHES

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130

TOROIDAL SHELLS

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TORQUE

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344

TORQUE MOTORS

Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

TORQUEMETERS

Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

TORSION

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

TORSO

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987

TOUCH

- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

TOWERS

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY

- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

TOXICITY AND SAFETY HAZARD

- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY

- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS

- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

TRACE ELEMENTS

- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

TRACKED VEHICLES

- Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291

TRACKING (POSITION)

- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

TRACKING FILTERS

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

TRACKING RADAR

- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS

- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRAFFIC CONTROL

- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

TRAILERS

- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES

- Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TRAILING-EDGE FLAPS

- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES

- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

TRAINING SIMULATORS

- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORY ANALYSIS

- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL

- Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

TRANSDUCERS

- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087

TRANSFER FUNCTIONS

- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMERS

- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING

- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS

- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Pulse counting circuit which simultaneously indicates the occurrence of the n th pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-26808-1] c 33 N86-20682

TRANSITION FLOW

Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE

Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261

Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

TRANSLATIONAL MOTION

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982

Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462

TRANSLATORS

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

TRANSMISSION LINES

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

A process to produce fine line metallic collection patterns on semiconductor devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325

TRANSMISSIONS (MACHINE ELEMENTS)

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

TRANSMISSIVITY

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TRANSMITTERS

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

TRANSONIC SPEED

Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

TRANSPARENCE

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N85-20128

Process for preparing highly optically transparent-colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSPIRATION

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

TRANSPONDERS

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORTATION

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

TRANSVERSE ACCELERATION

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPS

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

TRAVELING WAVES

Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TREADMILLS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

TREADS

Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291

TRIGGER CIRCUITS

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799

TUBE GRIDS
Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

TUNGSTEN
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259

Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

TUNNEL DIODES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

TUNNELING (EXCAVATION)
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

TURBINE BLADES
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TURBINE PUMPS

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

TURBINE WHEELS

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

TURBOCOMPRESSORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS

Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

TURBOJET ENGINE CONTROL

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES

Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY

Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

TURBOSHAFTS

- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

TURBULENCE METERS

- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

TURBULENT BOUNDARY LAYER

- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

TURBULENT FLOW

- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

TURNSTILE ANTENNAS

- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET

- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING

- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM

- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

TYPEWRITERS

- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

U

U BENDS

- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES

- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM

- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS

- Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890

ULTRASONIC AGITATION

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION

- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

ULTRASONIC RADIATION

- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307

ULTRASONIC SCANNERS

- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS

- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512

ULTRASONIC WAVE TRANSDUCERS

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

ULTRASONIC WELDING

- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

ULTRASONICS

- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

ULTRAVIOLET FILTERS

- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

ULTRAVIOLET LASERS

- Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

ULTRAVIOLET RADIATION

- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

ULTRAVIOLET REFLECTION

- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363

- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

ULTRAVIOLET SPECTRA

- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

ULTRAVIOLET SPECTROMETERS

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

UMBILICAL CONNECTORS

- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259

- Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455

- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

UMBILICAL TOWERS

- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

UNDERWATER ENGINEERING

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

- Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

UNDERWATER TESTS

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- UNIFORM FLOW**
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- UNIONS (CONNECTORS)**
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- UNLOADING**
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
- UNMANNED SPACECRAFT**
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- UNSATURATION (CHEMISTRY)**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- UP-CONVERTERS**
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- UPPER ATMOSPHERE**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- URANIUM 235**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- UREAS**
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- URETHANES**
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- URINALYSIS**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- URINATION**
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- URINE**
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
- UROLOGY**
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- UTERUS**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- V**
- V GROOVES**
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- VACANCIES (CRYSTAL DEFECTS)**
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- VACUUM APPARATUS**
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-00461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960
- VACUUM CHAMBERS**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- VACUUM DEPOSITION**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-MF-00605] c 15 N71-20395

- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- VACUUM EFFECTS**
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- VACUUM FURNACES**
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- VACUUM GAGES**
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- VACUUM MELTING**
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- VACUUM PUMPS**
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- VACUUM SYSTEMS**
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- VACUUM TUBES**
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- VALUE**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- VALVES**
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- VANES**
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- VAPOR DEPOSITION**
- A method for the deposition of beta-silicon carbide by isopitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- VAPOR PHASES**
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721
- VAPOR PRESSURE**
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- VAPOR TRAPS**
- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- VAPORIZERS**
- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- VAPORIZING**
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- VAPORS**
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
- Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
- VARACTOR DIODE CIRCUITS**
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- VARACTOR DIODES**
- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- VARIABLEITY**
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- VARIABLE CYCLE ENGINES**
- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- VARIABLE GEOMETRY STRUCTURES**
- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- VARIABLE PITCH PROPELLERS**
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- VARIABLE SWEEP WINGS**
- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- VARIABLE THRUST**
- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- VARIATIONS**
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- VECTOR ANALYSIS**
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- VECTOR CURRENTS**
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
- VECTORCARDIOGRAPHY**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- VEGETATION GROWTH**
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- VEHICLE WHEELS**
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- VEHICLES**
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- VEHICULAR TRACKS**
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291
- VELOCITY**
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- VELOCITY COUPLING**
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- VELOCITY MEASUREMENT**
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
- Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
- VELOCITY MODULATION**
- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425
- VENTILATION**
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- VENTILATORS**
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- VENTING**
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
- VENUS (PLANET)**
- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- VERTICAL FLIGHT**
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- VERTICAL LANDING**
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- VERTICAL ORIENTATION**
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT

- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- VERY HIGH FREQUENCIES**
- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- VERY LARGE SCALE INTEGRATION**
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- VERY LONG BASE INTERFEROMETRY**
- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- VESTS**
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- VIBRATION**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- VIBRATION DAMPING**
- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N85-20377
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Fluidic momentum controller
[NASA-CASE-MS-C-20906-1] c 18 N86-19344
- VIBRATION EFFECTS**
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- VIBRATION ISOLATORS**
- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- Hermetic sealed vibration damper Patent
[NASA-CASE-MS-C-10959] c 15 N71-26243
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-C-12619-2] c 27 N79-12221
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

VIBRATION MEASUREMENT

- Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
- VIBRATION METERS**
- Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- VIBRATION MODE**
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- VIBRATION SIMULATORS**
- Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
- VIBRATION TESTS**
- Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
- Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
- Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- VIBRATIONAL SPECTRA**
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- VIDEO COMMUNICATION**
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- VIDEO DATA**
- Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- VIDEO EQUIPMENT**
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
- Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114
- VIDEO SIGNALS**
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Television camera video level control system
[NASA-CASE-MS-C-18578-1] c 32 N85-21427
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MS-C-20821-1] c 17 N86-20466

VIDICONS

- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- VIEWING**
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N85-28951
- VINYL COPOLYMERS**
- Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- VINYL POLYMERS**
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-1] c 27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-C-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438
- VINYLDIENE**
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- VIROSES**
- Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693
- VISCOELASTICITY**
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- VISCOMETERS**
- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
- Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
- VISCOSITY**
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- VISCOUS DAMPING**
- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- VISIBILITY**
- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- VISIBLE SPECTRUM**
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- VISION**
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- VISORS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- VISUAL ACUITY**
- Multiparameter vision testing apparatus
[NASA-CASE-MS-C-13601-2] c 54 N75-27759
- VISUAL CONTROL**
- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
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Reaction tester
[NASA-CASE-MS-C-13604-1] c 05 N73-13114
VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MS-C-13912-1] c 32 N74-30524
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
VOLATILITY
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
VOLT-AMPERE CHARACTERISTICS
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
VOLTAGE AMPLIFIERS
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MS-C-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
VORTEX FLAPS
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
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WAFERS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
WALKING
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
WALL TEMPERATURE
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
WALLS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

WARNING SYSTEMS

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Unsaturation saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Hearing aid malfunction detection system
[NASA-CASE-MS-C-14916-1] c 33 N78-10375

Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

WASHING

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

WASTE DISPOSAL

Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840

Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804

Absorbent product and articles made therefrom
[NASA-CASE-MS-C-18223-2] c 54 N84-11758

WASTE ENERGY UTILIZATION

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT

Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

WASTE UTILIZATION

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584

WASTE WATER

Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

WATER

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

WATER FLOW

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-C-20857-1] c 37 N86-20807

WATER INJECTION

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859

WATER MANAGEMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067

WATER QUALITY

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

WATER RESOURCES

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER TEMPERATURE

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Iodine generator for reclaimed water purification
[NASA-CASE-MS-C-14632-1] c 54 N78-14784

Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

WATER VAPOR

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-C-16394-1] c 28 N81-24280

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

WATER WAVES

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

WATERWAVE ENERGY CONVERSION

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION

Double reference pulsed phase locked loop (DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441

WAVE REFLECTION

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

WAVEFORMS

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

Family of frequency to amplitude converters
[NASA-CASE-MS-C-12395] c 09 N72-25257

Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MS-C-12428-1] c 10 N73-25240

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-C-14557-1] c 32 N76-16249

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

WAVEGUIDE ANTENNAS

- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

WAVEGUIDE FILTERS

- High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

WAVEGUIDE WINDOWS

- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

WAVEGUIDES

- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-NPO-03134] c 07 N71-10676
- Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Coaxial phased array antenna
[NASA-CASE-MS-16800-1] c 32 N81-14187
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

WAVELENGTHS

- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

WAVES

- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WEAR

- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

WEAR INHIBITORS

- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

WEATHERPROOFING

- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

WEBS (SHEETS)

- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WEBS (SUPPORTS)

- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

WEDGES

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676

WEIGHT (MASS)

- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

WEIGHT INDICATORS

- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

WEIGHT MEASUREMENT

- Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

WEIGHTLESSNESS

- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

WEIGHTLESSNESS SIMULATION

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975

WELD STRENGTH

- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

WELD TESTS

- Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

WELDED JOINTS

- Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

WELDED STRUCTURES

- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING

- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

WELDING MACHINES

- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130

WET CELLS

- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

WETTING

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

WHEATSTONE BRIDGES

- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WHEELS

- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

WHISKER COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

WHISKERS (CRYSTALS)

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

WICKS

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

WIDE ANGLE LENSES

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

WIDEBAND COMMUNICATION

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

WIND EFFECTS

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N84-32383

WIND MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

WIND PROFILES

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N84-32383

WIND TUNNEL APPARATUS

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

WIND TUNNEL CALIBRATION

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

WIND TUNNEL DRIVES

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

WIND TUNNEL MODELS

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

WIND TUNNEL NOZZLES

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Wind tunnel supplementary Mach number minimum section insert
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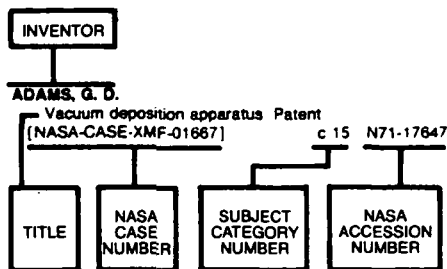
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[NASA-CASE-NPO-13930-1] c 52 N79-14749

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[NASA-CASE-LEW-10689-1] c 28 N71-26173
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[NASA-CASE-LEW-10106-1] c 28 N71-26642
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[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
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[NASA-CASE-LEW-12048-1] c 20 N77-20162
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[NASA-CASE-LEW-13120-1] c 27 N82-28440
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[NASA-CASE-LEW-13028-1] c 27 N82-33521
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[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
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[NASA-CASE-LEW-13837-1] c 24 N84-22695
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[NASA-CASE-LEW-13837-2] c 24 N85-21267
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[NASA-CASE-LEW-13899-1] c 31 N86-20587
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[NASA-CASE-LEW-13773-2] c 33 N86-20671

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[NASA-CASE-MFS-22907-1] c 26 N76-18257

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[NASA-CASE-MFS-25687-1] c 35 N84-22928
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[NASA-CASE-KSC-10242] c 15 N72-23497

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[NASA-CASE-NPO-15826-1] c 74 N83-30222

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[NASA-CASE-XLA-04295] c 16 N71-24170

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[NASA-CASE-GSC-10344-1] c 03 N72-27053

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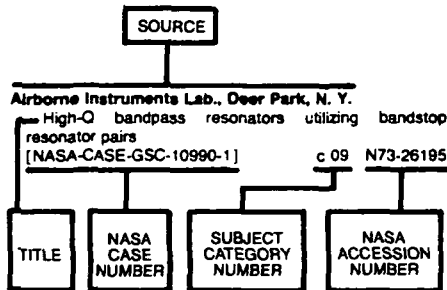
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Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

California Univ., Berkeley.
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

California Univ., Los Angeles.
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Catholic Univ. of America, Washington, D.C.
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Chance Vought Corp., Dallas, Tex.
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Christopher Newport Coll., Newport News, Va.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Chrysler Corp., Detroit, Mich.
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Chrysler Corp., Huntsville, Ala.
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Clemson Univ., S.C.
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

Collins Radio Co., Cedar Rapids, Iowa.
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Collins Radio Co., Dallas, Tex.
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Colorado State Univ., Fort Collins.
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Columbia Univ., New York.
Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086

Comprehensive Designers, Inc., Sherman Oaks, Calif.
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

Computer Control Co., Inc., Framingham, Mass.
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Computer Sciences Corp., Falls Church, Va.
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Computer Sciences Corp., Greenbelt, Md.
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Computer Sciences Corp., Mountain View, Calif.
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

Conrac Corp., Pasadena, Calif.
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

Consolidated Controls Corp., El Segundo, Calif.
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

Cornell Univ., Ithaca, N.Y.
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Crane Co., Burbank, Calif.
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Curtiss-Wright Corp., Wood-Ridge, N.J.
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Cutler-Hammer, Inc., Melville, N.Y.
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

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Delaware Univ., Newark.
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Denver Univ., Colo.
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

Department of the Army, Washington, D. C.
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798

Department of Transportation, Cambridge, Mass.
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998

Dorne and Margolin, Inc., Bohemia, N.Y.
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Douglas Aircraft Co., Inc., Santa Monica, Calif.
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Duke Univ., Durham, N. C.
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Dumont Electron Tubes, Clifton, N. J.
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Dynatherm Corp., Cockeysville, Md.
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

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Echo Science Corp., Mountain View, Calif.
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Eitel-McCullough, Inc., San Carlos, Calif.
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Electrac, Inc., Anaheim, Calif.
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electric Storage Battery Co., Raleigh, N.C.
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129

Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Electric Storage Battery Co., Yardley, Pa.
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Electro-Optical Systems, Inc., Pasadena, Calif.
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

Electro-Optics Consultants, Inc., Huntsville, Ala.
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639

Electronic Image Systems Corp., Cambridge, Mass.
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

Essex Corp., Huntsville, Ala.
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Ewen Knight Corp., East Natick, Mass.
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

F

Fairchild Hiller Corp., Germantown, Md.
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Fairchild Republic Co., Farmingdale, N.Y.
Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Faraday Labs, Inc., La Jolla, Calif.
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Federal-Mogul Corp., Los Alamitos, Calif.
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975

Florida Univ., Gainesville.
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527

FMC Corp., New York.
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

Foothill Coll., Los Altos Hills, Calif.
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Ford Motor Co., Dearborn, Mich.
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

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Garrett Corp., Los Angeles, Calif.
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

Garrett Corp., Torrance, Calif.
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

GCA Corp., Bedford, Mass.
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

General Dynamics/Astronautics, San Diego, Calif.
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

General Dynamics/Convair, San Diego, Calif.
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

General Dynamics Corp., San Diego, Calif.
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

General Electric Co., Cincinnati, Ohio.
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

Reverse pitch fan with divided splitter
[NASA-CASE-XNP-12760-1] c 07 N77-17059

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

General Electric Co., Cleveland, Ohio.
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, Pa.
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

Didymium hydrate additive to nickel hydroxide electrodes
[NASA-CASE-XGS-03505] c 03 N71-10608

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers
[NASA-CASE-XGS-02011] c 15 N71-20739

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MS-13917-1] c 05 N72-15098

Method for measuring cutaneous sensory perception
[NASA-CASE-MS-13609-1] c 05 N72-25122

Reaction tester
[NASA-CASE-MS-13604-1] c 05 N73-13114

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Multiparameter vision testing apparatus
[NASA-CASE-MS-13601-2] c 54 N75-27759

Automatic biowaste sampling
[NASA-CASE-MS-14640-1] c 54 N76-14804

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

General Electric Co., Pleasanton, Calif.
Method of making a cermet
[NASA-CASE-LEW-10219-1] c 18 N71-28729

General Electric Co., Schenectady, N. Y.
Superconductive accelerometer
[NASA-CASE-XMF-01099] c 14 N71-15969

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

General Electric Co., Utica, N. Y.
Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372

General Motors Corp., Detroit, Mich.
Hermetic sealed vibration damper
[NASA-CASE-MS-10959] c 15 N71-26243

General Motors Corp., Milwaukee, Wis.
Adjustable tension wire guide
[NASA-CASE-XMS-02383] c 15 N71-15918

General Motors Corp., Santa Barbara, Calif.
Resilient wheel
[NASA-CASE-MFS-13929] c 15 N71-27091

General Precision, Inc., Little Falls, N.J.
Reversible current control apparatus
[NASA-CASE-XLA-09371] c 10 N71-18724

General Precision, Inc., Sunnyvale, Calif.
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

General Precision Systems, Inc., Little Falls, N.J.
Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c 12 N71-18603

General Research Corp., Santa Barbara, Calif.
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

General Technologies Corp., Reston, Va.
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Geophysics Corp. of America, Bedford, Mass.
Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c 31 N71-16081

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Geophysics Corp. of America, Boston, Mass.
Ionospheric battery
[NASA-CASE-XGS-01593] c 03 N70-35408

George Washington Univ., Washington, D.C.
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Glenn Scientific Corp., Santa Ana, Calif.
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

Giner, Inc., Waltham, Mass.
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Globe-Union, Inc., Milwaukee, Wis.
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Goodyear Aerospace Corp., Akron, Ohio.
Foldable solar concentrator
[NASA-CASE-XLA-04622] c 03 N70-41580

Method of making a filament-wound container
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Filament wound container
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation
[NASA-CASE-MFS-14023] c 33 N71-25351

Thermally activated foaming compositions
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

Grace (W. R.) and Co., Clarksville, Md.
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides
[NASA-CASE-HON-10364] c 06 N71-27363

Grumman Aerospace Corp., Bethpage, N.Y.
Multi-leg heat pipe evaporator
[NASA-CASE-MS-20812-1] c 34 N84-32748

Pumped two-phase heat transfer loop
[NASA-CASE-MS-20841-1] c 34 N86-20721

Sun shield
[NASA-CASE-MS-20162-1] c 37 N86-20803

Grumman Aircraft Engineering Corp., Bethpage, N. Y.
Sealed cabinetry
[NASA-CASE-MS-12168-1] c 09 N71-18600

Out of tolerance warning alarm system for plurality of monitored circuits
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Gulf General Atomic, San Diego, Calif.
Waveform simulator
[NASA-CASE-NPO-10251] c 10 N71-27365

Gulton Industries, Inc., Albuquerque, N.Mex.
Analog-to-digital converter
[NASA-CASE-MS-13110-1] c 08 N72-22163

H

Hamilton Standard, Windsor Locks, Conn.
Venting device for pressurized space suit helmet
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MS-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-16394-1] c 28 N81-24280

Slow opening valve
[NASA-CASE-MS-20112-1] c 37 N85-20338

Hamilton Standard Div., United Aircraft Corp., Windsor Locks, Conn.
Condensate removal device for heat exchanger
[NASA-CASE-MS-14143-1] c 77 N75-20139

Harris Corp., Melbourne, Fla.
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Hayes International Corp., Birmingham, Ala.
Space craft soft landing system
[NASA-CASE-XMF-02108] c 31 N70-36845

Device for preventing high voltage arcing in electron beam welding
[NASA-CASE-XMF-08522] c 15 N71-19486

Hayes International Corp., Huntsville, Ala.
Method and apparatus for cryogenic wire stripping
[NASA-CASE-MFS-10340] c 15 N71-17628

Self-balancing strain gage transducer
[NASA-CASE-MFS-12827] c 14 N71-17656

Automatic closed circuit television arc guidance control
[NASA-CASE-MFS-13046] c 07 N71-19433

Hazleton Labs., Falls Church, Va.
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures
[NASA-CASE-XGS-05532] c 06 N71-17705

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

HC Chem Research and Service, San Jose, Calif.
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Hercules, Inc., Wilmington, Del.
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Hoffman Electronics Corp., El Monte, Calif.
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Honeywell, Inc., Hopkins, Minn.
Frequency control network for a current feedback oscillator
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Honeywell, Inc., Minneapolis, Minn.
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Apparatus for overcurrent protection of a push-pull amplifier
[NASA-CASE-MS-12033-1] c 09 N71-13531

Static inverter
[NASA-CASE-XGS-05289] c 09 N71-19470

High impedance measuring apparatus
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- Honeywell, Inc., St. Petersburg, Fla.**
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- Thrust dynamometer Patent
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- Method of making screen by casting Patent
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- Method for fiberizing ceramic materials Patent
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- Gregorian all-reflective optical system
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- Opto-mechanical subsystem with temperature compensation through isothermal design
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[NASA-CASE-ERC-10034] c 15 N71-24896
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[NASA-CASE-ERC-10151] c 16 N71-29131
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[NASA-CASE-ERC-10248] c 14 N72-17323
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[NASA-CASE-FRC-10036] c 09 N72-22200
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[NASA-CASE-FRC-10060-1] c 14 N73-27379
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[NASA-CASE-GSC-11063-1] c 37 N77-27400

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[NASA-CASE-GSC-12053-1] c 32 N77-28346

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transparent object

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apparatus

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[NASA-CASE-GSC-12110-1] c 27 N77-32308

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energy array computers

[NASA-CASE-GSC-11839-3] c 60 N77-32731

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[NASA-CASE-XGS-04994] c 09 N69-21543

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Patent

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Patent

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Apparatus for producing three-dimensional recordings

of fluorescence spectra

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characteristics of large surface area passive reflectors

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photocells

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PCM data signals

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different times by selective power coupling to the sections

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Position location system and method

Patent

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Patent

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Patent

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Patent

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Patent

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Patent

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Patent

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field generating and detecting apparatus

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electromechanical drive for interferometers and the like

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Combustion products generating and metering device [NASA-CASE-GSC-11095-1] c 14 N72-10375

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Helical recorder arrangement for multiple channel recording on both sides of the tape [NASA-CASE-GSC-10614-1] c 09 N72-11224

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence [NASA-CASE-GSC-11133-1] c 23 N72-11568

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A dc to ac to dc converter having transistor synchronous rectifiers [NASA-CASE-GSC-11126-1] c 09 N72-25253

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Use of unilluminated solar cells as shunt diodes for a solar array [NASA-CASE-GSC-10344-1] c 03 N72-27053

Active tuned circuit [NASA-CASE-GSC-11340-1] c 10 N72-33230

Electric motive machine including magnetic bearing [NASA-CASE-XGS-07805] c 15 N72-33476

Cosmic dust or other similar outer space particles impact location detector [NASA-CASE-GSC-11291-1] c 25 N72-33696

Method and apparatus for determining the contents of contained gas samples [NASA-CASE-GSC-10903-1] c 14 N73-12444

System for stabilizing torque between a balloon and gondola [NASA-CASE-GSC-11077-1] c 02 N73-13008

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Data processor with conditionally supplied clock signals [NASA-CASE-GSC-10975-1] c 08 N73-13187

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Method and system for ejecting fairing sections from a rocket vehicle [NASA-CASE-GSC-10590-1] c 31 N73-14853

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Star tracking reticles and process for the production thereof [NASA-CASE-GSC-11188-2] c 21 N73-19630

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Low outgassing polydimethylsiloxane material and preparation thereof [NASA-CASE-GSC-11358-1] c 06 N73-26100

Method of detecting and counting bacteria in body fluids [NASA-CASE-GSC-11092-2] c 04 N73-27052

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Device for determining relative angular position between a spacecraft and a radiation emitting celestial body [NASA-CASE-GSC-11444-1] c 14 N73-28490

Fastener stretcher [NASA-CASE-GSC-11149-1] c 15 N73-30457

Spacecraft attitude sensor [NASA-CASE-GSC-10890-1] c 21 N73-30640

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Recorder/processor apparatus [NASA-CASE-GSC-11553-1] c 35 N74-15831

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Turnstile slot antenna [NASA-CASE-GSC-11428-1] c 32 N74-20864

Method and apparatus for checking fire detectors [NASA-CASE-GSC-11600-1] c 35 N74-21019

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National Aeronautics and Space Administration. John F. Kennedy Space Center, Cocoa Beach, Fla.
Device for determining the accuracy of the flare on a flared tube
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[NASA-CASE-XKS-09348] c 09 N71-13521
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[NASA-CASE-XKS-08012-2] c 31 N71-15566
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
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[NASA-CASE-XKS-08485] c 07 N71-19493
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
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[NASA-CASE-XKS-03381] c 09 N71-22796
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[NASA-CASE-XKS-03509] c 14 N71-23175
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[NASA-CASE-XKS-04631] c 10 N71-23663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
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VHF/UHF parasitic probe antenna Patent
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BCD to decimal decoder Patent
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[NASA-CASE-XKS-05932] c 09 N71-26787
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[NASA-CASE-XKS-07814] c 15 N71-27067
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[NASA-CASE-KSC-10020] c 10 N71-27338
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High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Zero gravity shadow shield aligner
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High temperature penetrator assembly with bayonet plug and ramp-activated lock
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Method and technique for installing light-weight fragile, high-temperature fiber insulation
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Self-contained, single-use hose and tubing cleaning module
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Air frame drag balance Patent
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Aircraft wheel spray drag alleviator Patent
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[NASA-CASE-XMF-00722]		c 15	N70-40204
Electro-optical alignment control system	Patent		
[NASA-CASE-XMF-00908]		c 14	N70-40238
Missile launch release system	Patent		
[NASA-CASE-XMF-03198]		c 30	N70-40353
Double-acting shock absorber	Patent		
[NASA-CASE-XMF-01045]		c 15	N70-40354
Portable alignment tool	Patent		
[NASA-CASE-XMF-01452]		c 15	N70-41371
Device for suppressing sound and heat produced by high-velocity exhaust jets	Patent		
[NASA-CASE-XMF-01813]		c 28	N70-41582
Unfired-ceramic flame-resistant insulation and method of making the same	Patent		
[NASA-CASE-XMF-01030]		c 18	N70-41583
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse	Patent		
[NASA-CASE-XMF-00906]		c 09	N70-41655
Support apparatus for dynamic testing	Patent		
[NASA-CASE-XMF-01772]		c 11	N70-41677
Locking device with rolling detents	Patent		
[NASA-CASE-XMF-01371]		c 15	N70-41829
Tank construction for space vehicles	Patent		
[NASA-CASE-XMF-01899]		c 31	N70-41948
Positive displacement flowmeter	Patent		
[NASA-CASE-XMF-02822]		c 14	N70-41994
Hydraulic support for dynamic testing	Patent		
[NASA-CASE-XMF-03248]		c 11	N71-10604
Fiber optic vibration transducer and analyzer	Patent		
[NASA-CASE-XMF-02433]		c 14	N71-10616
Method and means for damping nutation in a satellite	Patent		
[NASA-CASE-XMF-00442]		c 31	N71-10747
Heat pipe thermionic diode power system	Patent		
[NASA-CASE-XMF-05843]		c 03	N71-11055
Synthesis of siloxane-containing epoxy polymers	Patent		
[NASA-CASE-MFS-13994-1]		c 06	N71-11240
Bi-carrier demodulator with modulation	Patent		
[NASA-CASE-XMF-01160]		c 07	N71-11298
Harness assembly	Patent		
[NASA-CASE-MFS-14671]		c 05	N71-12341
Magnetic matrix memory system	Patent		
[NASA-CASE-XMF-05835]		c 08	N71-12504
Pulse amplitude and width detector	Patent		
[NASA-CASE-XMF-06519]		c 09	N71-12519
Microwave power receiving antenna	Patent		
[NASA-CASE-XMF-20333]		c 09	N71-13486
Hybrid holographic system using reflected and transmitted object beams simultaneously	Patent		
[NASA-CASE-MFS-20074]		c 16	N71-15565
Reactance control system	Patent		
[NASA-CASE-XMF-01598]		c 21	N71-15583
Apparatus for welding torch angle and seam tracking control	Patent		
[NASA-CASE-XMF-03287]		c 15	N71-15607
Multway vortex valve system	Patent		
[NASA-CASE-XMF-04709]		c 15	N71-15609
Injector assembly for liquid fueled rocket engines	Patent		
[NASA-CASE-XMF-00968]		c 28	N71-15660
Space capsule ejection assembly	Patent		
[NASA-CASE-XMF-03169]		c 31	N71-15675
Air cushion lift pad	Patent		
[NASA-CASE-MFS-14685]		c 31	N71-15689
Method of making a molded connector	Patent		
[NASA-CASE-XMF-03498]		c 15	N71-15986
Regenerative braking system	Patent		
[NASA-CASE-XMF-01096]		c 10	N71-16030
Condition and condition duration indicator	Patent		
[NASA-CASE-XMF-01097]		c 10	N71-16030

Method and apparatus for securing to a spacecraft	Patent		
[NASA-CASE-MFS-11133]		c 31	N71-16222
Method and apparatus of simulating zero gravity conditions	Patent		
[NASA-CASE-MFS-12750]		c 27	N71-16223
Passive optical wind and turbulence detection system	Patent		
[NASA-CASE-XMF-14032]		c 20	N71-16340
Serpentuator Patent			
[NASA-CASE-XMF-05344]		c 31	N71-16345
Gravimeter Patent			
[NASA-CASE-XMF-05844]		c 14	N71-17587
High pressure gas filter system	Patent		
[NASA-CASE-MFS-12806]		c 14	N71-17588
Burst diaphragm flow initiator	Patent		
[NASA-CASE-MFS-12915]		c 11	N71-17600
Vacuum deposition apparatus	Patent		
[NASA-CASE-XMF-01667]		c 15	N71-17647
Quick disconnect latch and handle combination	Patent		
[NASA-CASE-MFS-11132]		c 15	N71-17649
Method and apparatus for precision sizing and joining of large diameter tubes	Patent		
[NASA-CASE-XMF-05114]		c 15	N71-17650
Low temperature flexure fatigue cryostat	Patent		
[NASA-CASE-XMF-02964]		c 14	N71-17659
Precision stepping drive	Patent		
[NASA-CASE-MFS-14772]		c 15	N71-17692
Multi-mission module	Patent		
[NASA-CASE-XMF-01543]		c 31	N71-17730
Ratchet mechanism	Patent		
[NASA-CASE-MFS-12805]		c 15	N71-17805
Method of making impurity-type semiconductor electrical contacts	Patent		
[NASA-CASE-XMF-01016]		c 26	N71-17818
Apparatus for the determination of the existence or non-existence of a bonding between two members	Patent		
[NASA-CASE-MFS-13686]		c 15	N71-18132
Static inverters which sum a plurality of waves	Patent		
[NASA-CASE-XMF-00663]		c 08	N71-18752
Space environmental work simulator	Patent		
[NASA-CASE-XMF-07488]		c 11	N71-18773
Space manufacturing machine	Patent		
[NASA-CASE-MFS-20410]		c 15	N71-19214
Extensometer	Patent		
[NASA-CASE-XMF-04680]		c 15	N71-19489
Mechanical simulator of low gravity conditions	Patent		
[NASA-CASE-MFS-10555]		c 11	N71-19494
Weld control system using thermocouple wire	Patent		
[NASA-CASE-MFS-06074]		c 15	N71-20393
Evaporant source for vapor deposition	Patent		
[NASA-CASE-XMF-06065]		c 15	N71-20395
Satellite despin device	Patent		
[NASA-CASE-XMF-08523]		c 31	N71-20396
Method of coating circuit paths on printed circuit boards with solder	Patent		
[NASA-CASE-XMF-01599]		c 09	N71-20705
Elastomeric silazane polymers and process for preparing the same	Patent		
[NASA-CASE-XMF-04133]		c 06	N71-20717
Method of producing alternating ether siloxane copolymers	Patent		
[NASA-CASE-XMF-02584]		c 06	N71-20905
Honeycomb panel and method of making same	Patent		
[NASA-CASE-XMF-01402]		c 18	N71-21651
Portable milling tool	Patent		
[NASA-CASE-XMF-03511]		c 15	N71-22799
Energy absorbing device	Patent		
[NASA-CASE-XMF-10040]		c 15	N71-22877
Continuous detonation reaction engine	Patent		
[NASA-CASE-XMF-06926]		c 28	N71-22983
Adaptive tracking notch filter system	Patent		
[NASA-CASE-XMF-01892]		c 10	N71-22986
Meteorological balloon	Patent		
[NASA-CASE-XMF-04163]		c 02	N71-23007
Continuous turning slip ring assembly	Patent		
[NASA-CASE-XMF-01049]		c 15	N71-23049
Automatic welding speed controller	Patent		
[NASA-CASE-XMF-01730]		c 15	N71-23050
Positive dc to positive dc converter	Patent		
[NASA-CASE-XMF-14301]		c 09	N71-23188
Zero gravity apparatus	Patent		
[NASA-CASE-XMF-06515]		c 14	N71-23227
Positive dc to negative dc converter	Patent		
[NASA-CASE-XMF-08217]		c 03	N71-23239
Evacuation port seal	Patent		
[NASA-CASE-XMF-03290]		c 15	N71-23256
Azimuth laying system	Patent		
[NASA-CASE-XMF-01669]		c 21	N71-23289
Electron beam instrument for measuring electric fields	Patent		
[NASA-CASE-XMF-10289]		c 14	N71-23699
Anemometer with braking mechanism	Patent		
[NASA-CASE-XMF-05224]		c 14	N71-23722

Apparatus for testing a pressure responsive instrument Patent			Multiple image storing system for high speed projectile photography			Apparatus and method for skin packaging articles [NASA-CASE-MFS-20855]	c 15	N73-27405
[NASA-CASE-XMF-04134]	c 14	N71-23755	[NASA-CASE-MFS-20596]	c 14	N72-17324	Ergometer		
Electric welding torch Patent			Method of manufacturing semiconductor devices using refractory dielectrics			[NASA-CASE-MFS-21109-1]	c 05	N73-27941
[NASA-CASE-XMF-02330]	c 15	N71-23798	[NASA-CASE-XER-08476-1]	c 26	N72-17820	Tilting table for ergometer and for other biomedical devices		
Swivel support for gas bearings Patent			Underwater space suit pressure control regulator			[NASA-CASE-MFS-21010-1]	c 05	N73-30078
[NASA-CASE-XMF-07808]	c 15	N71-23812	[NASA-CASE-MFS-20332]	c 05	N72-20097	Measurement system		
Welding skate with computerized control Patent			Apparatus for making diamonds			[NASA-CASE-MFS-20658-1]	c 14	N73-30386
[NASA-CASE-XMF-07069]	c 15	N71-23815	[NASA-CASE-MFS-20698]	c 15	N72-20446	Collimator of multiple plates with axially aligned identical random arrays of apertures		
Docking structure for spacecraft Patent			An airtight			[NASA-CASE-MFS-20546-2]	c 14	N73-30389
[NASA-CASE-XMF-05941]	c 31	N71-23912	[NASA-CASE-MFS-20922]	c 31	N72-20840	Holographic thin film analyzer		
High pressure helium purifier Patent			Photoetching of metal-oxide layers			[NASA-CASE-MFS-20823-1]	c 16	N73-30476
[NASA-CASE-XMF-06888]	c 15	N71-24044	[NASA-CASE-ERC-10108]	c 06	N72-21094	Semiconductor surface protection material		
Horizontal cryostat for fatigue testing Patent			Liquid aerosol dispenser			[NASA-CASE-ERC-10339-1]	c 18	N73-30532
[NASA-CASE-XMF-10968]	c 14	N71-24234	[NASA-CASE-MFS-20829]	c 12	N72-21310	Polymerizable disilanol having in-chain perfluoroalkyl groups		
Method for leakage testing of tanks Patent			Optical probing of supersonic flows with statistical correlation			[NASA-CASE-MFS-20979-2]	c 06	N73-32030
[NASA-CASE-XMF-02392]	c 32	N71-24285	[NASA-CASE-MFS-20642]	c 14	N72-21407	Redundant speed control for brushless Hall effect motor		
Internal flare angle gauge Patent			Mechanically actuated triggered hand			[NASA-CASE-MFS-20207-1]	c 09	N73-32107
[NASA-CASE-XMF-04415]	c 14	N71-24693	[NASA-CASE-MFS-20413]	c 15	N72-21463	Induction motor control system with voltage controlled oscillator circuit		
Pulse rise time and amplitude detector Patent			Hermetically sealed elbow actuator			[NASA-CASE-MFS-21465-1]	c 10	N73-32145
[NASA-CASE-XMF-08804]	c 09	N71-24717	[NASA-CASE-MFS-14710]	c 09	N72-22195	Synthesis of superconducting compounds by explosive compaction of powders		
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent			Shielded flat cable			[NASA-CASE-MFS-20861-1]	c 18	N73-32437
[NASA-CASE-XMF-06892]	c 09	N71-24805	[NASA-CASE-MFS-13687-2]	c 09	N72-22198	Ultrasonic scanner for radial and flat panels		
Power system with heat pipe liquid coolant lines Patent			Shock wave convergence apparatus			[NASA-CASE-MFS-20335-1]	c 35	N74-10415
[NASA-CASE-MFS-14114-2]	c 09	N71-24807	[NASA-CASE-MFS-20890]	c 14	N72-22439	Digital computing cardiachometer		
Magnetomotive metal working device Patent			Bonding of reinforced Teflon to metals			[NASA-CASE-MFS-20284-1]	c 52	N74-12778
[NASA-CASE-XMF-03793]	c 15	N71-24833	[NASA-CASE-MFS-20482]	c 15	N72-22492	Integrated circuit package with lead structure and method of preparing the same		
Apparatus for determining the deflection of an electron beam impinging on a target Patent			Inorganic thermal control coatings			[NASA-CASE-MFS-21374-1]	c 33	N74-12951
[NASA-CASE-XMF-06617]	c 09	N71-24843	[NASA-CASE-MFS-20011]	c 18	N72-22566	Vee-notching device		
Transistor servo system including a unique differential amplifier circuit Patent			High temperature furnace for melting materials in space			[NASA-CASE-MFS-20730-1]	c 39	N74-13131
[NASA-CASE-XMF-05195]	c 10	N71-24861	[NASA-CASE-MFS-20710]	c 11	N72-23215	Ultrasonic scanning system for in-place inspection of brazed tube joints		
RC rate generator for slow speed measurement Patent			Siloxane containing epoxide compounds			[NASA-CASE-MFS-20767-1]	c 38	N74-15130
[NASA-CASE-XMF-02966]	c 10	N71-24863	[NASA-CASE-MFS-13994-2]	c 06	N72-25148	Method and apparatus for checking the stability of a setup for making reflection type holograms		
Method and apparatus for precision sizing and joining of large diameter tubes Patent			Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups			[NASA-CASE-MFS-21455-1]	c 35	N74-15146
[NASA-CASE-XMF-05114-3]	c 15	N71-24865	[NASA-CASE-MFS-20979]	c 06	N72-25151	Method and apparatus for nondestructive testing		
Duct coupling for single-handed operation Patent			Emergency lunar communications system			[NASA-CASE-MFS-21233-1]	c 38	N74-15395
[NASA-CASE-MFS-20395]	c 15	N71-24903	[NASA-CASE-MFS-21042]	c 07	N72-25171	Real time moving scene holographic camera system		
Brushless direct current tachometer Patent			Lead attachment to high temperature devices			[NASA-CASE-MFS-21087-1]	c 35	N74-17153
[NASA-CASE-MFS-20385]	c 09	N71-24904	[NASA-CASE-ERC-10224]	c 09	N72-25261	Nonflammable coating compositions		
Self-lubricating gears and other mechanical parts Patent			Device for measuring bearing preload			[NASA-CASE-MFS-20486-2]	c 27	N74-17283
[NASA-CASE-MFS-14971]	c 15	N71-24984	[NASA-CASE-MFS-20434]	c 11	N72-25288	Metering gun for dispensing precisely measured charges of fluid		
Pulse width inverter Patent			Altitude simulation chamber for rocket engine testing			[NASA-CASE-MFS-21163-1]	c 54	N74-17853
[NASA-CASE-MFS-10068]	c 10	N71-25139	[NASA-CASE-MFS-20620]	c 11	N72-27262	Omnidirectional wheel		
Isothermal cover with thermal reservoirs Patent			Fixture for supporting articles during vibration tests			[NASA-CASE-MFS-21309-1]	c 37	N74-18125
[NASA-CASE-MFS-20355]	c 33	N71-25353	[NASA-CASE-MFS-20523]	c 14	N72-27412	Reinforced polyquinoxaline gasket and method of preparing the same		
Storage container for electronic devices Patent			Electrical connector			[NASA-CASE-MFS-21364-1]	c 37	N74-18126
[NASA-CASE-MFS-20075]	c 09	N71-26133	[NASA-CASE-MFS-20757]	c 09	N72-28225	Manual actuator		
Method and apparatus for precision sizing and joining of large diameter tubes Patent			Remote control manipulator for zero gravity environment			[NASA-CASE-MFS-21481-1]	c 37	N74-18127
[NASA-CASE-XMF-05114-2]	c 15	N71-26148	[NASA-CASE-MFS-14405]	c 15	N72-28495	Cryogenic gyroscope housing		
Filter system for control of outgas contamination in vacuum Patent			Thermal compensating structural member			[NASA-CASE-MFS-21136-1]	c 35	N74-18323
[NASA-CASE-MFS-14711]	c 15	N71-26185	[NASA-CASE-MFS-20433]	c 15	N72-28496	Automatic frequency control for FM transmitter		
Image magnification adapter for cameras Patent			Semiconductor transducer device			[NASA-CASE-MFS-21540-1]	c 32	N74-19790
[NASA-CASE-XMF-03844-1]	c 14	N71-26474	[NASA-CASE-ERC-10087-2]	c 14	N72-31446	Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver		
Thickness measuring and injection device Patent			Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc			[NASA-CASE-MFS-21470-1]	c 44	N74-19870
[NASA-CASE-MFS-20261]	c 14	N71-27005	[NASA-CASE-MFS-20589]	c 25	N72-32688	Reduced gravity fecal collector seat and urinal		
Personal propulsion unit Patent			Process for the preparation of brushite crystals			[NASA-CASE-MFS-22102-1]	c 54	N74-20725
[NASA-CASE-MFS-20130]	c 28	N71-27585	[NASA-CASE-ERC-10338]	c 04	N72-33072	Metabolic analyzer		
Power system with heat pipe liquid coolant lines Patent			Adjustable force probe			[NASA-CASE-MFS-21415-1]	c 52	N74-20728
[NASA-CASE-MFS-14114]	c 33	N71-27862	[NASA-CASE-MFS-20760]	c 14	N72-33377	Automatic quadrature control and measuring system		
Method of making shielded flat cable Patent			Polyimide resin-fiberglass cloth laminates for printed circuit boards			[NASA-CASE-MFS-21660-1]	c 35	N74-21017
[NASA-CASE-MFS-13687]	c 09	N71-28691	[NASA-CASE-MFS-20408]	c 18	N73-12604	Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids		
A dc motor speed control system Patent			Differential pressure control			[NASA-CASE-MFS-22411-1]	c 37	N74-21058
[NASA-CASE-MFS-14610]	c 09	N71-28886	[NASA-CASE-MFS-14216]	c 14	N73-13418	Airtight		
Cryogenic thermal insulation Patent			Redundant hydraulic control system for actuators			[NASA-CASE-MFS-20922-1]	c 18	N74-22136
[NASA-CASE-XMF-05046]	c 33	N71-28892	[NASA-CASE-MFS-20944]	c 15	N73-13466	Low distortion automatic phase control circuit		
Method of coating through-holes Patent			Device and method for determining X ray reflection efficiency of optical surfaces			[NASA-CASE-MFS-21671-1]	c 33	N74-22885
[NASA-CASE-XMF-05999]	c 15	N71-29032	[NASA-CASE-MFS-20243]	c 23	N73-13662	Two speed drive system		
Response analyzers for sensors Patent			Process for making diamonds			[NASA-CASE-MFS-20645-1]	c 37	N74-23070
[NASA-CASE-MFS-11204]	c 14	N71-29134	[NASA-CASE-MFS-20698-2]	c 15	N73-19457	Insert facing tool		
Current regulating voltage divider			Test stand system for vacuum chambers			[NASA-CASE-MFS-21485-1]	c 37	N74-25968
[NASA-CASE-MFS-20935]	c 09	N71-34212	[NASA-CASE-MFS-21362]	c 11	N73-20267	LC-oscillator with automatic stabilized amplitude via bias current control		
Nuclear mass flowmeter			Material fatigue testing system			[NASA-CASE-MFS-21698-1]	c 33	N74-26732
[NASA-CASE-MFS-20485]	c 14	N72-11365	[NASA-CASE-MFS-20673]	c 14	N73-20476	Device for monitoring a change in mass in varying gravimetric environments		
Fine adjustment mount			Ratometer			[NASA-CASE-MFS-21556-1]	c 35	N74-26945
[NASA-CASE-MFS-20249]	c 15	N72-11386	[NASA-CASE-MFS-20418]	c 14	N73-24473	Holography utilizing surface plasmon resonances		
Method of making foamed materials in zero gravity			Underwater space suit pressure control regulator			[NASA-CASE-MFS-22040-1]	c 35	N74-26946
[NASA-CASE-XMF-09902]	c 15	N72-11387	[NASA-CASE-MFS-20332-2]	c 05	N73-25125	Electrophoretic sample insertion		
Air bearing assembly for curved surfaces			Maxometers (peak wind speed anemometers)			[NASA-CASE-MFS-21395-1]	c 25	N74-26948
[NASA-CASE-MFS-20423]	c 15	N72-11388	[NASA-CASE-MFS-20916]	c 14	N73-25460	Sprag solenoid brake		
Stud-bonding gun			Monitoring deposition of films			[NASA-CASE-MFS-21846-1]	c 37	N74-26976
[NASA-CASE-MFS-20299]	c 15	N72-11392	[NASA-CASE-MFS-20675]	c 26	N73-26751			
Apparatus for obtaining isotropic irradiation of a specimen			Docking structure for spacecraft					
[NASA-CASE-MFS-20095]	c 24	N72-11595	[NASA-CASE-MFS-20863]	c 31	N73-26876			
Wind tunnel test section			Wide temperature range electronic device with lead attachment					
[NASA-CASE-MFS-20509]	c 11	N72-17183	[NASA-CASE-ERC-10224-2]	c 09	N73-27150			
			Restraint system for ergometer					
			[NASA-CASE-MFS-21046-1]	c 14	N73-27377			

Device for configuring multiple leads [NASA-CASE-MFS-22133-1]	c 33	N74-26977	Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides [NASA-CASE-MFS-22356-1]	c 23	N75-30256	Mechanical thermal motor [NASA-CASE-MFS-23062-1]	c 37	N77-12402
Thrust-isolating mounting [NASA-CASE-MFS-21680-1]	c 18	N74-27397	Integrable power gyrator [NASA-CASE-MFS-22342-1]	c 33	N75-30428	Solid-state current transformer [NASA-CASE-MFS-22560-1]	c 33	N77-14335
Battery testing device [NASA-CASE-MFS-20761-1]	c 44	N74-27519	Isolated output system for a class D switching-mode amplifier [NASA-CASE-MFS-21616-1]	c 33	N75-30429	Actuator device for artificial leg [NASA-CASE-MFS-23225-1]	c 52	N77-14735
Apparatus for establishing flow of a fluid mass having a known velocity [NASA-CASE-MFS-21424-1]	c 34	N74-27730	Solar energy power system [NASA-CASE-MFS-21628-1]	c 44	N75-32581	Frequency modulated oscillator [NASA-CASE-MFS-23181-1]	c 33	N77-17351
Apparatus for conducting flow electrophoresis in the substantial absence of gravity [NASA-CASE-MFS-21394-1]	c 34	N74-27744	System for enhancing tool-exchange capabilities of a portable wrench [NASA-CASE-MFS-22283-1]	c 37	N75-33395	Method of and means for testing a tape record/playback system [NASA-CASE-MFS-22671-2]	c 35	N77-17426
Steady state thermal radiometers [NASA-CASE-MFS-21108-1]	c 34	N74-27861	Externally supported internally stabilized flexible duct joint [NASA-CASE-MFS-19194-1]	c 37	N76-14460	Notch filter [NASA-CASE-MFS-23303-1]	c 32	N77-18307
Conductive elastomeric extensometer [NASA-CASE-MFS-21049-1]	c 52	N74-27864	Quick disconnect filter coupling [NASA-CASE-MFS-22323-1]	c 37	N76-14463	Guide for a typewriter [NASA-CASE-MFS-15218-1]	c 37	N77-19457
Device for measuring tensile forces [NASA-CASE-MFS-21728-1]	c 35	N74-27865	Panel for selectively absorbing solar thermal energy and the method of producing said panel [NASA-CASE-MFS-22562-1]	c 44	N76-14595	Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking [NASA-CASE-MFS-23267-1]	c 35	N77-20401
Three mirror glancing incidence system for X-ray telescope [NASA-CASE-MFS-21372-1]	c 74	N74-27866	Rapid activation and checkout device for batteries [NASA-CASE-MFS-22749-1]	c 44	N76-14601	Emergency descent device [NASA-CASE-MFS-23074-1]	c 54	N77-21844
Flame detector operable in presence of proton radiation [NASA-CASE-MFS-21577-1]	c 19	N74-29410	Two stage light gas-plasma projectile accelerator [NASA-CASE-MFS-22287-1]	c 75	N76-14931	Device for tensioning test specimens within an hermetically sealed chamber [NASA-CASE-MFS-23281-1]	c 35	N77-22450
Integrated P-channel MOS gyrator [NASA-CASE-MFS-22343-1]	c 33	N74-34638	Polyimides of ether-linked aryl tetracarboxylic dianhydrides [NASA-CASE-MFS-22355-1]	c 23	N76-15268	Combined docking and grasping device [NASA-CASE-MFS-23088-1]	c 37	N77-23483
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[NASA-CASE-NPO-16413-1] c 26 N85-21325

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[NASA-CASE-NPO-15759-1] c 35 N85-21596

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[NASA-CASE-NPO-15790-1] c 36 N85-21631

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[NASA-CASE-NPO-15483-1] c 37 N85-21650

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[NASA-CASE-NPO-15851-1] c 37 N85-21652

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[NASA-CASE-NPO-15651-1] c 43 N85-21723

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[NASA-CASE-NPO-15430-1] c 46 N85-21846

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[NASA-CASE-NPO-16021-1] c 33 N85-30187

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[NASA-CASE-MFS-20240] c 14 N71-26788
- Rensselaer Polytechnic Inst., Troy, N.Y.**
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Dual acting slit control mechanism
[NASA-CASE-XLA-11370-1] c 35 N80-28686
- Research Triangle Inst., Durham, N. C.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Rochester General Hospital, N. Y.**
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Rochester Univ., N. Y.**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Rockwell International Corp., Anaheim, Calif.**
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
- Rockwell International Corp., Canoga Park, Calif.**
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Hydrazinium nitroformate propellant stabilized with nitrogen
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- Method of heat treating age-hardenable alloys
[NASA-CASE-NXP-01311] c 26 N75-29236
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Stable superconducting magnet
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
- Rockwell International Corp., Downey, Calif.**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Degassing and mixing apparatus for liquids
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
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[NASA-CASE-LAR-12644-1] c 37 N84-28084
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[NASA-CASE-MSC-20250-1] c 35 N86-19581

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[NASA-CASE-MSC-18742-1] c 37 N82-26673

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[NASA-CASE-MSC-19672-1] c 38 N79-14398

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[NASA-CASE-MSC-20304-1] c 37 N82-31690

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[NASA-CASE-MSC-20783-1] c 35 N86-20756

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[NASA-CASE-MFS-19796-1] c 37 N86-20802

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[NASA-CASE-NPO-11036] c 15 N72-24522

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[NASA-CASE-XMS-00907] c 02 N70-41630

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[NASA-CASE-XNP-02092] c 15 N70-42033

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[NASA-CASE-ARC-11154-1] c 25 N80-23383

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

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[NASA-CASE-ARC-11252-1] c 25 N83-36118

Fluoropolymer modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Sanders Associates, Inc., Nashua, N. H.

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Patent

[NASA-CASE-XMS-09352] c 09 N71-23316

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Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

Santa Barbara Research Center, Goleta, Calif.

Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465

Santa Clara Univ., Calif.

Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736

System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517

System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345

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[NASA-CASE-ARC-10812-1] c 07 N83-33884

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[NASA-CASE-MSC-16074-1] c 27 N80-26446

Scott Aviation Corp., Lancaster, N. Y.

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[NASA-CASE-MSC-14733-1] c 54 N76-24900

Serv-Air, Inc., Edwards, Calif.

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

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Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

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Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

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[NASA-CASE-XMF-05757-1] c 31 N79-21227

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Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

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[NASA-CASE-ARC-11444-1] c 05 N85-29947

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[NASA-CASE-MSC-20258-1] c 60 N84-28492

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[NASA-CASE-KSC-10647-1] c 10 N72-31273

Smith Electronics, Inc., Cleveland, Ohio.

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

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Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

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[NASA-CASE-HQN-10654-1] c 16 N73-13489

Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313

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[NASA-CASE-XMS-01177] c 05 N71-19440

Southern Methodist Univ., Dallas, Tex.

Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

Southern Research Inst., Birmingham, Ala.

Insoluble silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190

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[NASA-CASE-WLP-10055-1] c 35 N84-28015

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[NASA-CASE-WLP-10055-2] c 35 N85-21598

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[NASA-CASE-HQN-10740-1] c 72 N74-19310

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[NASA-CASE-XGS-00823] c 10 N71-15910

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[NASA-CASE-XLE-00820] c 14 N71-16014

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[NASA-CASE-XGS-00824] c 15 N71-16078

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

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[NASA-CASE-XNP-00826] c 03 N71-20895

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

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[NASA-CASE-XNP-01107] c 10 N71-28859

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[NASA-CASE-FRC-10010] c 10 N71-24862

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[NASA-CASE-FRC-10012] c 14 N72-17329

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[NASA-CASE-XMF-03934] c 09 N71-22985

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

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Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

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[NASA-CASE-XNP-02340] c 23 N69-24332

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[NASA-CASE-XNP-02341] c 15 N71-21531

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[NASA-CASE-NPO-10575] c 03 N72-25019

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Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299

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Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

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[NASA-CASE-XGS-03058] c 10 N71-19547

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[NASA-CASE-MFS-14017] c 14 N71-26627

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[NASA-CASE-MFS-20068] c 07 N71-27191

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

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[NASA-CASE-KSC-10521] c 07 N73-20176

Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c 33 N74-26977

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[NASA-CASE-MFS-22283-1] c 37 N75-33395

Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457

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[NASA-CASE-MFS-22458-1] c 44 N77-10635

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

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[NASA-CASE-MFS-22234-1] c 32 N79-10264

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[NASA-CASE-MFS-23675-1] c 89 N79-10969

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[NASA-CASE-XLA-04897] c 15 N72-22482

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[NASA-CASE-XNP-03263] c 09 N71-18843

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[NASA-CASE-XNP-02251] c 12 N71-20896

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[NASA-CASE-NPO-10242] c 09 N71-24803

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[NASA-CASE-NPO-10234] c 06 N72-17094

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[NASA-CASE-ARC-10042-2] c 10 N72-11256

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[NASA-CASE-ARC-10192] c 09 N72-21245

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-HQN-10069] c 33 N75-27251

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[NASA-CASE-ARC-11051-1] c 27 N78-32260

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[NASA-CASE-ARC-11169-1] c 24 N79-24062

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[NASA-CASE-ARC-11052-1] c 37 N79-28551

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[NASA-CASE-ARC-11164-1] c 44 N83-34448

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[NASA-CASE-XAC-05462-2] c 10 N72-17171

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[NASA-CASE-XMS-02952] c 18 N71-20742

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[NASA-CASE-MFS-20125] c 16 N72-13437

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[NASA-CASE-XMS-01994-1] c 14 N72-17326

T**Taag Designs, Inc., College Park, Md.**

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[NASA-CASE-XGS-04047-2] c 03 N72-11062

Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

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[NASA-CASE-MSC-12607-1] c 32 N75-21485
- Tamarack Scientific Co., Inc., Orange, Calif.**
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
- Technicolor, Inc., Paramus, N.J.**
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Technidyne, Inc., West Chester, Pa.**
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[NASA-CASE-MFS-20586] c 15 N71-17686
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[NASA-CASE-LEW-12989-1] c 37 N82-12442
- Technion Research and Development Foundation Ltd., Haifa (Israel).**
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[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Technology, Inc., Houston, Tex.**
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[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Technology, Inc., San Antonio, Tex.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
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[NASA-CASE-MSC-13540-1] c 05 N72-33096
- Teledyne Brown Engineering, Huntsville, Ala.**
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[NASA-CASE-MFS-20774] c 14 N73-19420
- Temple Univ. Research Inst., Philadelphia, Pa.**
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[NASA-CASE-LAR-10670-1] c 06 N73-30097
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- Texas A&M Univ., College Station.**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Texas Instruments, Inc., Dallas.**
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Texas Technological Univ., Lubbock.**
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[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Thiokol Chemical Corp., Bristol, Pa.**
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[NASA-CASE-LAR-11995-1] c 28 N77-10213
- Thiokol Corp., Brigham City, Utah.**
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[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Thompson Ramo Wooldridge, Inc., Cleveland, Ohio.**
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[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Tisdale (Henry F., Sr.), Treasure Island, Fla.**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Trans-Sonics, Inc., Lexington, Mass.**
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[NASA-CASE-MFS-21629] c 14 N72-22442
- TransTechnology Corp., Canyon Country, Calif.**
Slide release mechanism
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Trident Engineering Associates, Inc., Annapolis, Md.**
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- TRW Defense and Space Systems Group, Redondo Beach, Calif.**
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- TRW Equipment Labs., Cleveland, Ohio.**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- TRW, Inc., Redondo Beach, Calif.**
Method of and device for determining the characteristics and flux distribution of micrometeorites
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Particle parameter analyzing system
[NASA-CASE-XLE-06094] c 33 N78-17293
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
- Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- Wobble gear drive mechanism
[NASA-CASE-WOO-00625] c 37 N78-17385
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- TRW Systems, Redondo Beach, Calif.**
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[NASA-CASE-XNP-05975] c 15 N69-23185
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[NASA-CASE-XNP-09702] c 15 N71-17654
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[NASA-CASE-XLE-05913] c 33 N71-14032
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
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[NASA-CASE-MSC-12390] c 27 N71-29155
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[NASA-CASE-MSC-11847-1] c 14 N72-11363
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[NASA-CASE-NPO-11018] c 08 N72-21200
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[NASA-CASE-NPO-12072] c 28 N72-22772
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[NASA-CASE-NPO-11078] c 09 N72-25262
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[NASA-CASE-NPO-11016] c 08 N72-31226
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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[NASA-CASE-MSC-13802-2] c 35 N78-15431
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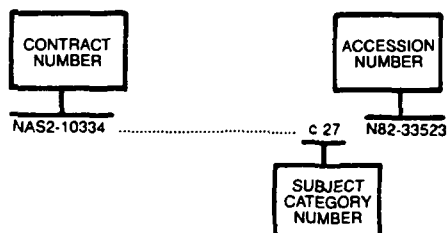
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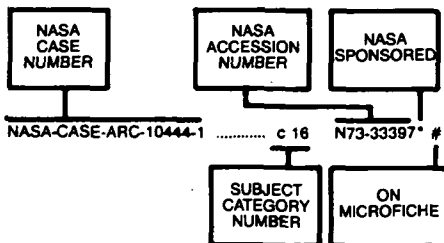
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NASA-CASE-LAR-10195-1	c 15	N73-19458 *	#	NASA-CASE-LAR-10841-1	c 31	N74-27900 *	#	NASA-CASE-LAR-11889-1	c 35	N79-26372 *	#
NASA-CASE-LAR-10203-1	c 15	N72-16330 *	#	NASA-CASE-LAR-10855-1	c 14	N73-13415 *	#	NASA-CASE-LAR-11889-2	c 37	N78-27424 *	#
NASA-CASE-LAR-10204	c 14	N71-27215 *	#	NASA-CASE-LAR-10862-1	c 35	N74-15092 *	#	NASA-CASE-LAR-11898-1	c 24	N78-10214 *	#
NASA-CASE-LAR-10208-1	c 35	N76-18400 *	#	NASA-CASE-LAR-10868-1	c 33	N74-11050 *	#	NASA-CASE-LAR-11898-2	c 24	N78-17149 *	#
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NASA-CASE-LAR-10323-1	c 12	N71-17573 *	#	NASA-CASE-LAR-11074-1	c 51	N75-13502 *	#	NASA-CASE-LAR-12052-1	c 18	N81-29152 *	#
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NASA-CASE-LAR-10623-1	c 14	N73-30395 *	#	NASA-CASE-LAR-11570-1	c 34	N76-18364 *	#	NASA-CASE-LAR-12363-1	c 35	N82-31659 *	#
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NASA-CASE-LAR-10634-1	c 37	N74-18123 *	#	NASA-CASE-LAR-11617-2	c 35	N78-32397 *	#	NASA-CASE-LAR-12375-1	c 32	N79-24203 *	#
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NASA-CASE-LAR-10688-1	c 37	N74-21056 *	#	NASA-CASE-LAR-11675-1	c 45	N76-17656 *	#	NASA-CASE-LAR-12465-1	c 33	N82-26572 *	#
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NASA-CASE-LAR-12592-1	c 36	N82-13415 *	#	NASA-CASE-LAR-13198-1	c 37	N85-29287 *	#	NASA-CASE-LEW-11152-1	c 15	N73-32359 *	#
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NASA-CASE-LAR-12620-1	c 24	N82-32417 *	#	NASA-CASE-LAR-13233-1	c 05	N84-33400 *	#	NASA-CASE-LEW-11169-1	c 37	N76-23570 *	#
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NASA-CASE-LAR-12638-1	c 04	N84-14132 *	#	NASA-CASE-LAR-13256-1	c 36	N86-19596 *	#	NASA-CASE-LEW-11192-1	c 09	N73-13208 *	#
NASA-CASE-LAR-12640-1	c 27	N82-11206 *	#	NASA-CASE-LAR-13257-1	c 25	N84-32447 *	#	NASA-CASE-LEW-11227-1	c 73	N75-30876 *	#
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NASA-CASE-LAR-12644-1	c 37	N84-28084 *	#	NASA-CASE-LAR-13262-1	c 23	N85-28973 *	#	NASA-CASE-LEW-11267-1	c 17	N73-32414 *	#
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NASA-CASE-LEW-12552-1	c 44	N78-25527 *	#	NASA-CASE-LEW-13429-1	c 33	N83-31952 *	#	NASA-CASE-MFS-13994-2	c 06	N72-25148 *	#
NASA-CASE-LEW-12552-2	c 44	N79-11472 *	#	NASA-CASE-LEW-13450-1	c 31	N83-35177 *	#	NASA-CASE-MFS-14017	c 14	N71-26627 *	#
NASA-CASE-LEW-12554-1	c 34	N78-18355 *	#	NASA-CASE-LEW-13495-1	c 33	N83-33663 *	#	NASA-CASE-MFS-14023	c 33	N71-25351 *	#
NASA-CASE-LEW-12569-1	c 37	N79-10418 *	#	NASA-CASE-LEW-13504-1	c 25	N83-31188 *	#	NASA-CASE-MFS-14114-2	c 09	N71-24807 *	#
NASA-CASE-LEW-12582-1	c 76	N83-34796 *	#	NASA-CASE-LEW-13506-1	c 37	N83-33490 *	#	NASA-CASE-MFS-14114	c 33	N71-27862 *	#
NASA-CASE-LEW-12586-1	c 44	N80-14472 *	#	NASA-CASE-LEW-13524-1	c 07	N84-33410 *	#	NASA-CASE-MFS-14216	c 14	N73-13418 *	#
NASA-CASE-LEW-12587-1	c 44	N77-31601 *	#	NASA-CASE-LEW-13526-1	c 36	N84-22944 *	#	NASA-CASE-MFS-14253	c 33	N71-24858 *	#
NASA-CASE-LEW-12590-1	c 37	N84-22958 *	#	NASA-CASE-LEW-13556-1	c 44	N81-27615 *	#	NASA-CASE-MFS-14259	c 15	N71-19213 *	#
NASA-CASE-LEW-12594-2	c 07	N81-19116 *	#	NASA-CASE-LEW-13562-2	c 07	N85-35195 *	#	NASA-CASE-MFS-14322	c 08	N71-18692 *	#
NASA-CASE-LEW-12608-1	c 07	N77-27116 *	#	NASA-CASE-LEW-13570-1	c 33	N84-16452 *	#	NASA-CASE-MFS-14405	c 15	N72-28495 *	#
NASA-CASE-LEW-12619-1	c 24	N77-19171 *	#	NASA-CASE-LEW-13598-1	c 35	N84-22930 *	#	NASA-CASE-MFS-14610	c 09	N71-28886 *	#
NASA-CASE-LEW-12649-1	c 44	N78-25530 *	#	NASA-CASE-LEW-13609-1	c 25	N83-17628 *	#	NASA-CASE-MFS-14671	c 05	N71-12341 *	#
NASA-CASE-LEW-12658-1	c 71	N79-14871 *	#	NASA-CASE-LEW-13620-1	c 44	N83-13579 *	#	NASA-CASE-MFS-14685	c 31	N71-15689 *	#
NASA-CASE-LEW-12661-1	c 35	N79-14345 *	#	NASA-CASE-LEW-13622-1	c 07	N84-22559 *	#	NASA-CASE-MFS-14710	c 09	N72-22195 *	#
NASA-CASE-LEW-12668-1	c 52	N78-14773 *	#	NASA-CASE-LEW-13639-1	c 26	N84-33555 *	#	NASA-CASE-MFS-14711	c 15	N71-26185 *	#
NASA-CASE-LEW-12718-1	c 34	N78-25351 *	#	NASA-CASE-LEW-13639-2	c 26	N84-27855 *	#	NASA-CASE-MFS-14741	c 09	N70-2737 *	#
NASA-CASE-LEW-12723-1	c 52	N80-18690 *	#	NASA-CASE-LEW-13653-1	c 44	N84-28205 *	#	NASA-CASE-MFS-14772	c 15	N71-17092 *	#
NASA-CASE-LEW-12760-1	c 07	N77-17059 *	#	NASA-CASE-LEW-13654-1	c 07	N84-22560 *	#	NASA-CASE-MFS-14971	c 15	N71-24984 *	#
NASA-CASE-LEW-12775-1	c 44	N79-11468 *	#	NASA-CASE-LEW-13670-1	c 37	N86-19606 *	#	NASA-CASE-MFS-15063	c 14	N72-25412 *	#
NASA-CASE-LEW-12780-1	c 20	N79-20179 *	#	NASA-CASE-LEW-13717-1	c 37	N85-30333 *	#	NASA-CASE-MFS-15162	c 14	N72-32452 *	#
NASA-CASE-LEW-12785-1	c 37	N78-24545 *	#	NASA-CASE-LEW-13736-1	c 33	N84-27974 *	#	NASA-CASE-MFS-15218-1	c 37	N77-19457 *	#
NASA-CASE-LEW-12791-1	c 33	N78-32341 *	#	NASA-CASE-LEW-13758-1	c 24	N84-27829 *	#	NASA-CASE-MFS-15429-1	c 18	N84-22609 *	#
NASA-CASE-LEW-12793-1	c 37	N79-11403 *	#	NASA-CASE-LEW-13770-1	c 27	N84-27885 *	#	NASA-CASE-MFS-15670-1	c 33	N82-33634 *	#
NASA-CASE-LEW-12806-2	c 44	N81-12542 *	#	NASA-CASE-LEW-13770-2	c 25	N85-28982 *	#	NASA-CASE-MFS-16570-1	c 05	N73-32013 *	#
NASA-CASE-LEW-12819-1	c 44	N79-11467 *	#	NASA-CASE-LEW-13770-3	c 27	N85-21350 *	#	NASA-CASE-MFS-16609-3	c 03	N76-32140 *	#
NASA-CASE-LEW-12819-2	c 44	N79-18444 *	#	NASA-CASE-LEW-13770-4	c 27	N85-21351 *	#	NASA-CASE-MFS-18100	c 15	N72-11390 *	#
NASA-CASE-LEW-12830-1	c 07	N77-23106 *	#	NASA-CASE-LEW-13770-5	c 27	N85-21352 *	#	NASA-CASE-MFS-18495	c 15	N72-11385 *	#
NASA-CASE-LEW-12876-2	c 27	N83-29392 *	#	NASA-CASE-LEW-13770-6	c 25	N85-30039 *	#	NASA-CASE-MFS-19193-1	c 37	N75-19686 *	#
NASA-CASE-LEW-12892-1	c 44	N83-14692 *	#	NASA-CASE-LEW-13773-2	c 33	N86-20671 *	#	NASA-CASE-MFS-19194-1	c 37	N76-14460 *	#
NASA-CASE-LEW-12905-1	c 26	N78-18183 *	#	NASA-CASE-LEW-13822-1	c 33	N84-29084 *	#	NASA-CASE-MFS-19220-1	c 20	N76-22296 *	#
NASA-CASE-LEW-12906-1	c 26	N77-32279 *	#	NASA-CASE-LEW-13827-1	c 44	N85-21768 *	#	NASA-CASE-MFS-19259-1	c 36	N78-14380 *	#
NASA-CASE-LEW-12907-2	c 07	N81-19115 *	#	NASA-CASE-LEW-13828-1	c 24	N85-30027 *	#	NASA-CASE-MFS-19287-1	c 34	N77-30399 *	#
NASA-CASE-LEW-12916-1	c 37	N78-17384 *	#	NASA-CASE-LEW-13833-1	c 33	N85-21492 *	#	NASA-CASE-MFS-19796-1	c 37	N86-20802 *	#
NASA-CASE-LEW-12917-1	c 07	N78-18067 *	#	NASA-CASE-LEW-13834-1	c 26	N83-24639 *	#	NASA-CASE-MFS-20011	c 18	N72-22566 *	#
NASA-CASE-LEW-12918-1	c 44	N81-24521 *	#	NASA-CASE-LEW-13837-1	c 24	N84-22695 *	#	NASA-CASE-MFS-20044	c 14	N71-28993 *	#
NASA-CASE-LEW-12919-1	c 24	N83-10117 *	#	NASA-CASE-LEW-13837-2	c 24	N85-21267 *	#	NASA-CASE-MFS-20068	c 07	N71-27191 *	#
NASA-CASE-LEW-12919-2	c 70	N84-28565 *	#	NASA-CASE-LEW-13864-1	c 27	N86-19457 *	#	NASA-CASE-MFS-20074	c 16	N71-15565 *	#
NASA-CASE-LEW-12933-1	c 27	N81-19296 *	#	NASA-CASE-LEW-13881-1	c 20	N85-21256 *	#	NASA-CASE-MFS-20075	c 09	N71-26133 *	#
NASA-CASE-LEW-12938-1	c 07	N82-32366 *	#	NASA-CASE-LEW-13899-1	c 31	N86-20877 *	#	NASA-CASE-MFS-20095	c 24	N72-11595 *	#
NASA-CASE-LEW-12940-1	c 72	N80-33186 *	#	NASA-CASE-LEW-13914-1	c 37	N85-33489 *	#	NASA-CASE-MFS-20096	c 14	N71-30026 *	#
NASA-CASE-LEW-12941-1	c 26	N83-10170 *	#	NASA-CASE-LEW-13922-1	c 33	N86-20672 *	#	NASA-CASE-MFS-20125	c 16	N72-13437 *	#
NASA-CASE-LEW-12950-1	c 34	N82-11399 *	#	NASA-CASE-LEW-13923-1	c 26	N85-35267 *	#	NASA-CASE-MFS-20			

NASA-CASE-MFS-20284-1	c 52	N74-12778 *	#	NASA-CASE-MFS-21441-1	c 14	N73-30392 *	#	NASA-CASE-MFS-23194-1	c 35	N78-17357 *	#
NASA-CASE-MFS-20299	c 15	N72-11392 *	#	NASA-CASE-MFS-21455-1	c 35	N74-15146 *	#	NASA-CASE-MFS-23225-1	c 52	N77-14735 *	#
NASA-CASE-MFS-20317	c 15	N73-13463 *	#	NASA-CASE-MFS-21462-1	c 33	N74-14935 *	#	NASA-CASE-MFS-23250-1	c 35	N82-11432 *	#
NASA-CASE-MFS-20325	c 28	N71-27095 *	#	NASA-CASE-MFS-21465-1	c 10	N73-32145 *	#	NASA-CASE-MFS-23267-1	c 35	N77-20401 *	#
NASA-CASE-MFS-20322-2	c 05	N73-25125 *	#	NASA-CASE-MFS-21470-1	c 44	N74-19870 *	#	NASA-CASE-MFS-23270-1	c 44	N78-25531 *	#
NASA-CASE-MFS-20332	c 05	N72-20097 *	#	NASA-CASE-MFS-21481-1	c 37	N74-18127 *	#	NASA-CASE-MFS-23274-1	c 33	N78-13320 *	#
NASA-CASE-MFS-20333	c 09	N71-13486 *	#	NASA-CASE-MFS-21485-1	c 37	N74-25968 *	#	NASA-CASE-MFS-23280-1	c 33	N78-10376 *	#
NASA-CASE-MFS-20335-1	c 35	N74-10415 *	#	NASA-CASE-MFS-21488-1	c 14	N75-24794 *	#	NASA-CASE-MFS-23281-1	c 35	N77-22450 *	#
NASA-CASE-MFS-20355	c 33	N71-25353 *	#	NASA-CASE-MFS-21540-1	c 32	N74-19790 *	#	NASA-CASE-MFS-23284-1	c 37	N80-14397 *	#
NASA-CASE-MFS-20385	c 09	N71-24904 *	#	NASA-CASE-MFS-21556-1	c 35	N74-26945 *	#	NASA-CASE-MFS-23299-1	c 39	N77-28511 *	#
NASA-CASE-MFS-20386	c 21	N71-19212 *	#	NASA-CASE-MFS-21577-1	c 19	N74-29410 *	#	NASA-CASE-MFS-23303-1	c 32	N77-18307 *	#
NASA-CASE-MFS-20395	c 15	N71-24903 *	#	NASA-CASE-MFS-21606-1	c 37	N75-19685 *	#	NASA-CASE-MFS-23311-1	c 54	N78-17676 *	#
NASA-CASE-MFS-20400	c 31	N71-18611 *	#	NASA-CASE-MFS-21611-1	c 54	N75-12616 *	#	NASA-CASE-MFS-23312-1	c 33	N78-27326 *	#
NASA-CASE-MFS-20407	c 09	N73-19235 *	#	NASA-CASE-MFS-21616-1	c 33	N75-30429 *	#	NASA-CASE-MFS-23315-1	c 76	N78-24950 *	#
NASA-CASE-MFS-20408	c 18	N73-12604 *	#	NASA-CASE-MFS-21628-1	c 44	N75-32581 *	#	NASA-CASE-MFS-23345-1	c 27	N77-30237 *	#
NASA-CASE-MFS-20410	c 15	N71-19214 *	#	NASA-CASE-MFS-21628-2	c 44	N76-23675 *	#	NASA-CASE-MFS-23349-1	c 44	N77-23481 *	#
NASA-CASE-MFS-20413	c 15	N72-21463 *	#	NASA-CASE-MFS-21629	c 14	N72-22442 *	#	NASA-CASE-MFS-23362-1	c 47	N77-10753 *	#
NASA-CASE-MFS-20418	c 14	N73-24473 *	#	NASA-CASE-MFS-21660-1	c 35	N74-21017 *	#	NASA-CASE-MFS-23363-1	c 35	N78-32396 *	#
NASA-CASE-MFS-20423	c 15	N72-11388 *	#	NASA-CASE-MFS-21671-1	c 33	N74-22885 *	#	NASA-CASE-MFS-23405-1	c 26	N77-29260 *	#
NASA-CASE-MFS-20433	c 15	N72-28496 *	#	NASA-CASE-MFS-21672-1	c 74	N76-19935 *	#	NASA-CASE-MFS-23447-1	c 37	N79-11404 *	#
NASA-CASE-MFS-20434	c 11	N72-25288 *	#	NASA-CASE-MFS-21675-1	c 25	N74-33378 *	#	NASA-CASE-MFS-23460-1	c 12	N79-26075 *	#
NASA-CASE-MFS-20453	c 15	N71-29133 *	#	NASA-CASE-MFS-21680-1	c 18	N74-27397 *	#	NASA-CASE-MFS-23461-1	c 35	N79-10389 *	#
NASA-CASE-MFS-20482	c 15	N72-22492 *	#	NASA-CASE-MFS-21681-1	c 18	N74-27397 *	#	NASA-CASE-MFS-23506-1	c 24	N78-24290 *	#
NASA-CASE-MFS-20485	c 14	N72-11365 *	#	NASA-CASE-MFS-21698-1	c 33	N74-26732 *	#	NASA-CASE-MFS-23513-1	c 74	N79-11865 *	#
NASA-CASE-MFS-20486-2	c 27	N74-17283 *	#	NASA-CASE-MFS-21704-1	c 35	N75-25124 *	#	NASA-CASE-MFS-23515-1	c 44	N80-21828 *	#
NASA-CASE-MFS-20506-1	c 35	N75-12273 *	#	NASA-CASE-MFS-21728-1	c 35	N74-27865 *	#	NASA-CASE-MFS-23518-1	c 44	N79-11469 *	#
NASA-CASE-MFS-20509	c 11	N72-17183 *	#	NASA-CASE-MFS-21761-1	c 35	N75-15931 *	#	NASA-CASE-MFS-23518-3	c 44	N80-16452 *	#
NASA-CASE-MFS-20523	c 14	N72-27412 *	#	NASA-CASE-MFS-21846-1	c 37	N74-26976 *	#	NASA-CASE-MFS-23540-1	c 44	N79-26475 *	#
NASA-CASE-MFS-20546-2	c 14	N73-30389 *	#	NASA-CASE-MFS-21919-1	c 10	N73-25243 *	#	NASA-CASE-MFS-23541-1	c 76	N79-14906 *	#
NASA-CASE-MFS-20586	c 15	N71-17686 *	#	NASA-CASE-MFS-21931-1	c 37	N75-26372 *	#	NASA-CASE-MFS-23551-1	c 04	N76-26175 *	#
NASA-CASE-MFS-20589	c 25	N72-32688 *	#	NASA-CASE-MFS-22002-1	c 44	N76-16612 *	#	NASA-CASE-MFS-23564-1	c 15	N78-25119 *	#
NASA-CASE-MFS-20596	c 14	N72-17324 *	#	NASA-CASE-MFS-22022-1	c 37	N76-15460 *	#	NASA-CASE-MFS-23579-1	c 18	N79-11108 *	#
NASA-CASE-MFS-20607-1	c 37	N76-19436 *	#	NASA-CASE-MFS-22039-1	c 09	N75-12968 *	#	NASA-CASE-MFS-23620-1	c 37	N79-10421 *	#
NASA-CASE-MFS-20619	c 28	N72-11708 *	#	NASA-CASE-MFS-22040-1	c 35	N74-26946 *	#	NASA-CASE-MFS-23626-1	c 24	N80-26388 *	#
NASA-CASE-MFS-20620	c 11	N72-27262 *	#	NASA-CASE-MFS-22060-1	c 35	N75-29380 *	#	NASA-CASE-MFS-23642-1	c 20	N80-10278 *	#
NASA-CASE-MFS-20642	c 14	N72-21407 *	#	NASA-CASE-MFS-22073-1	c 33	N75-13139 *	#	NASA-CASE-MFS-23642-2	c 20	N78-27176 *	#
NASA-CASE-MFS-20645-1	c 37	N74-23070 *	#	NASA-CASE-MFS-22088-1	c 33	N75-15874 *	#	NASA-CASE-MFS-23646-1	c 37	N79-22474 *	#
NASA-CASE-MFS-20658-1	c 14	N73-30386 *	#	NASA-CASE-MFS-22102-1	c 54	N74-20725 *	#	NASA-CASE-MFS-23659-1	c 33	N79-17133 *	#
NASA-CASE-MFS-20673	c 14	N73-20476 *	#	NASA-CASE-MFS-22129-1	c 33	N75-18477 *	#	NASA-CASE-MFS-23674-1	c 24	N81-29163 *	#
NASA-CASE-MFS-20675	c 26	N73-26751 *	#	NASA-CASE-MFS-22133-1	c 33	N74-26977 *	#	NASA-CASE-MFS-23675-1	c 89	N79-10969 *	#
NASA-CASE-MFS-20698-2	c 15	N73-19457 *	#	NASA-CASE-MFS-22145-1	c 75	N75-13625 *	#	NASA-CASE-MFS-23696-1	c 54	N81-26718 *	#
NASA-CASE-MFS-20698	c 15	N72-20446 *	#	NASA-CASE-MFS-22145-2	c 75	N76-17951 *	#	NASA-CASE-MFS-23717-1	c 52	N81-25680 *	#
NASA-CASE-MFS-20710	c 11	N72-23215 *	#	NASA-CASE-MFS-22189-1	c 35	N75-19615 *	#	NASA-CASE-MFS-23720-1	c 43	N80-23711 *	#
NASA-CASE-MFS-20730-1	c 39	N74-13131 *	#	NASA-CASE-MFS-22208-1	c 33	N75-26244 *	#	NASA-CASE-MFS-23720-2	c 43	N80-14423 *	#
NASA-CASE-MFS-20757	c 09	N72-28225 *	#	NASA-CASE-MFS-22234-1	c 32	N79-10264 *	#	NASA-CASE-MFS-23720-3	c 43	N79-25443 *	#
NASA-CASE-MFS-20760	c 14	N72-33377 *	#	NASA-CASE-MFS-22283-1	c 37	N75-33395 *	#	NASA-CASE-MFS-23721-1	c 31	N79-28370 *	#
NASA-CASE-MFS-20761-1	c 44	N74-27519 *	#	NASA-CASE-MFS-22287-1	c 75	N76-14931 *	#	NASA-CASE-MFS-23725-1	c 43	N79-31706 *	#
NASA-CASE-MFS-20767-1	c 38	N74-15130 *	#	NASA-CASE-MFS-22323-1	c 37	N76-14463 *	#	NASA-CASE-MFS-23726-1	c 43	N79-26439 *	#
NASA-CASE-MFS-20774	c 14	N73-19420 *	#	NASA-CASE-MFS-22324-1	c 27	N75-27160 *	#	NASA-CASE-MFS-23727-1	c 44	N80-14473 *	#
NASA-CASE-MFS-20775-1	c 31	N75-12161 *	#	NASA-CASE-MFS-22342-1	c 33	N75-30428 *	#	NASA-CASE-MFS-23775-1	c 44	N82-16474 *	#
NASA-CASE-MFS-20809	c 23	N73-13660 *	#	NASA-CASE-MFS-22343-1	c 33	N74-34638 *	#	NASA-CASE-MFS-23776-1	c 33	N82-28545 *	#
NASA-CASE-MFS-20823-1	c 16	N73-30476 *	#	NASA-CASE-MFS-22355-1	c 23	N76-15268 *	#	NASA-CASE-MFS-23777-1	c 37	N80-32716 *	#
NASA-CASE-MFS-20829	c 12	N72-21310 *	#	NASA-CASE-MFS-22356-1	c 23	N75-30256 *	#	NASA-CASE-MFS-23816-1	c 26	N80-23419 *	#
NASA-CASE-MFS-20830	c 15	N71-30028 *	#	NASA-CASE-MFS-22409-2	c 74	N78-15880 *	#	NASA-CASE-MFS-23825-1	c 51	N81-32829 *	#
NASA-CASE-MFS-20831	c 28	N71-29153 *	#	NASA-CASE-MFS-22411-1	c 37	N74-21058 *	#	NASA-CASE-MFS-23828-1	c 33	N82-26569 *	#
NASA-CASE-MFS-20855-1	c 15	N77-10112 *	#	NASA-CASE-MFS-22458-1	c 44	N77-10635 *	#	NASA-CASE-MFS-23830-1	c 44	N82-24639 *	#
NASA-CASE-MFS-20855	c 15	N73-27405 *	#	NASA-CASE-MFS-22517-1	c 35	N76-18402 *	#	NASA-CASE-MFS-23845-1	c 33	N81-17348 *	#
NASA-CASE-MFS-20861-1	c 18	N73-32437 *	#	NASA-CASE-MFS-22537-1	c 35	N75-27328 *	#	NASA-CASE-MFS-23846-1	c 37	N82-32731 *	#
NASA-CASE-MFS-20863	c 31	N73-26876 *	#	NASA-CASE-MFS-22560-1	c 33	N77-14335 *	#	NASA-CASE-MFS-23862-1	c 48	N80-18667 *	#
NASA-CASE-MFS-20890	c 14	N72-22439 *	#	NASA-CASE-MFS-22562-1	c 44	N76-14595 *	#	NASA-CASE-MFS-23883-1	c 51	N80-16715 *	#
NASA-CASE-MFS-20916	c 14	N73-25460 *	#	NASA-CASE-MFS-22597	c 36	N78-17366 *	#	NASA-CASE-MFS-23923-1	c 35	N81-19426 *	#
NASA-CASE-MFS-20922-1	c 18	N74-22136 *	#	NASA-CASE-MFS-22631-1	c 66	N76-19888 *	#	NASA-CASE-MFS-23981-1	c 07	N83-20944 *	#
NASA-CASE-MFS-20922	c 31	N72-20840 *	#	NASA-CASE-MFS-22636-1	c 37	N76-22540 *	#	NASA-CASE-MFS-23988-1	c 33	N81-27395 *	#
NASA-CASE-MFS-20932-1	c 35	N75-19616 *	#	NASA-CASE-MFS-22649-1	c 37	N75-25186 *	#	NASA-CASE-MFS-23999-1	c 44	N81-24520 *	#
NASA-CASE-MFS-20935	c 09	N71-34212 *	#	NASA-CASE-MFS-22671-1	c 35	N75-21582 *	#	NASA-CASE-MFS-24368-3	c 33	N81-22280 *	#
NASA-CASE-MFS-20944	c 15	N73-13466 *	#	NASA-CASE-MFS-22671-2	c 35	N77-17426 *	#	NASA-CASE-MFS-25000-1	c 25	N81-19242 *	#
NASA-CASE-MFS-20979-2	c 06	N73-32030 *	#	NASA-CASE-MFS-22707-1	c 37	N76-15457 *	#	NASA-CASE-MFS-25050-1	c 71	N81-15767 *	#
NASA-CASE-MFS-20979	c 06	N72-25151 *	#	NASA-CASE-MFS-22729-1	c 32	N76-21366 *	#	NASA-CASE-MFS-25134-1	c 31	N83-31895 *	#
NASA-CASE-MFS-20994-1	c 35	N75-12271 *	#	NASA-CASE-MFS-22734-1	c 18	N75-19329 *	#	NASA-CASE-MFS-25139-1	c 34	N82-13376 *	#
NASA-CASE-MFS-21010-1	c 05	N73-30078 *	#	NASA-CASE-MFS-22743-1	c 44	N76-22657 *	#	NASA-CASE-MFS-25181-1	c 27	N82-24340 *	#
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NASA-CASE-MFS-21042	c 07	N72-25171 *	#	NASA-CASE-MFS-22749-1	c 44	N76-14601 *	#	NASA-CASE-MFS-25209-1	c 33	N83-35227 *	#
NASA-CASE-MFS-21045-1	c 35	N75-15932 *	#	NASA-CASE-MFS-22758-1	c 70	N75-26789 *	#	NASA-CASE-MFS-25211-2	c 33	N84-14423 *	#
NASA-CASE-MFS-21046-1	c 14	N73-27377 *	#	NASA-CASE-MFS-22787-1	c 15	N77-10113 *	#	NASA-CASE-MFS-25215-1	c 33	N83-31953 *	#
NASA-CASE-MFS-21049-1	c 52	N74-27864 *	#	NASA-CASE-MFS-22905-1	c 19	N76-22284 *	#	NASA-CASE-MFS-25242-1	c 35	N83-29650 *	#
NASA-CASE-MFS-21077-1	c 24	N75-28135 *	#	NASA-CASE-MFS-22906-1	c 75	N78-27913 *	#	NASA-CASE-MFS-25282-1	c 34	N83-19015 *	#
NASA-CASE-MFS-21087-1	c 35	N74-17153 *	#	NASA-CASE-MFS-22907-1	c 26	N76-18257 *	#	NASA-CASE-MFS-25287-1	c 44	N82-18686 *	#
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NASA-CASE-MFS-21136-1	c 35	N74-18323 *	#	NASA-CASE-MFS-23001-1	c 76	N77-32919 *	#	NASA-CASE-MFS-25312-1	c 74	N83-17305 *	#
NASA-CASE-MFS-21163-1	c 54	N74-17853 *	#	NASA-CASE-MFS-23008-1	c 35	N78-18390 *	#	NASA-CASE-MFS-25315-1	c 36	N83-29680 *	#
NASA-CASE-MFS-21214-1	c 09	N73-30181 *	#	NASA-CASE-MFS-23047-1	c 37	N76-18454 *	#	NASA-CASE-MFS-25319-1	c 60	N85-33701 *	#
NASA-CASE-MFS-21233-1	c 38	N74-15395 *	#	NASA-CASE-MFS-23051-1	c 37	N79-10422 *	#	NASA-CASE-MFS-25323-1	c 33	N84-22886 *	#
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NASA-CASE-MFS-21364-1	c 37	N74-18126 *	#	NASA-CASE-MFS-23088-1	c 37	N77-23483 *	#	NASA-CASE-MFS-25429-1	c 18	N86-20469 *	#
NASA-CASE-MFS-21372-1	c 74	N74-27866 *	#	NASA-CASE-MFS-23099-1	c 09	N76-23273 *	#	NASA-CASE-MFS-25430-1	c 33	N84-16453 *	#
NASA-CASE-MFS-21374-1	c 33	N74-12951 *	#	NASA-CASE-MFS-23114-1	c 38	N78-32477 *	#	NASA-CASE-MFS-25436-1	c 27	N83-36220 *	#
NASA-CASE-MFS-2											

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NASA-CASE-MFS-25616-1	c 33	N84-16455 *	NASA-CASE-MSC-12233-1	c 15	N72-25454 *	NASA-CASE-MSC-14096-1	c 74	N74-15095 *
NASA-CASE-MFS-25631-1	c 34	N84-12406 *	NASA-CASE-MSC-12233-2	c 32	N73-13921 *	NASA-CASE-MSC-14129-1	c 33	N75-18479 *
NASA-CASE-MFS-25637-1	c 44	N85-21769 *	NASA-CASE-MSC-12239-1	c 52	N79-21750 *	NASA-CASE-MSC-14130-1	c 33	N74-32711 *
NASA-CASE-MFS-25641-1	c 72	N84-28575 *	NASA-CASE-MSC-12243-1	c 05	N71-24728 *	NASA-CASE-MSC-14131-1	c 33	N75-19515 *
NASA-CASE-MFS-256704-1	c 33	N84-22884 *	NASA-CASE-MSC-12259-1	c 07	N70-12616 *	NASA-CASE-MSC-14143-1	c 77	N75-20139 *
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NASA-CASE-MFS-25842-2	c 37	N86-20788 *	NASA-CASE-MSC-12393-1	c 02	N77-27368 *	NASA-CASE-MSC-14428-1	c 23	N77-17161 *
NASA-CASE-MFS-25843-1	c 20	N83-17588 *	NASA-CASE-MSC-12394-1	c 08	N74-10942 *	NASA-CASE-MSC-14435-1	c 37	N76-18455 *
NASA-CASE-MFS-25852-1	c 33	N84-33661 *	NASA-CASE-MSC-12395	c 09	N72-25257 *	NASA-CASE-MSC-14472-1	c 43	N77-10584 *
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NASA-CASE-MFS-25854-1	c 33	N84-27975 *	NASA-CASE-MSC-12397-1	c 05	N72-25119 *	NASA-CASE-MSC-14558-1	c 32	N75-21486 *
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NASA-CASE-MFS-25905-2	c 31	N86-21718 *	NASA-CASE-MSC-12428-1	c 10	N73-25240 *	NASA-CASE-MSC-14683-1	c 74	N77-18893 *
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NASA-CASE-MFS-25910-1	c 39	N86-20841 *	NASA-CASE-MSC-12462-1	c 32	N74-20809 *	NASA-CASE-MSC-14757-1	c 35	N78-10428 *
NASA-CASE-MFS-25912-1	c 74	N86-20124 *	NASA-CASE-MSC-12494-1	c 32	N74-20810 *	NASA-CASE-MSC-14771-1	c 54	N77-32722 *
NASA-CASE-MFS-25946-1	c 20	N84-15183 *	NASA-CASE-MSC-12506-1	c 32	N77-12239 *	NASA-CASE-MSC-14773-1	c 35	N78-12390 *
NASA-CASE-MFS-25949-1	c 37	N86-19603 *	NASA-CASE-MSC-12531-1	c 35	N75-30504 *	NASA-CASE-MSC-14805-1	c 54	N78-32720 *
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NASA-CASE-MFS-25966-1	c 15	N85-11122 *	NASA-CASE-MSC-12593-1	c 17	N76-21250 *	NASA-CASE-MSC-14903-2	c 27	N80-10358 *
NASA-CASE-MFS-25978-1	c 44	N84-32913 *	NASA-CASE-MSC-12607-1	c 32	N75-21485 *	NASA-CASE-MSC-14903-3	c 27	N80-24438 *
NASA-CASE-MFS-25981-1	c 35	N85-20299 *	NASA-CASE-MSC-12609-1	c 05	N73-32012 *	NASA-CASE-MSC-14905-1	c 37	N77-28487 *
NASA-CASE-MFS-26000-1	c 74	N84-16986 *	NASA-CASE-MSC-12611-1	c 12	N76-15189 *	NASA-CASE-MSC-14916-1	c 33	N78-10375 *
NASA-CASE-MFS-26009-1SB	c 54	N86-22114 *	NASA-CASE-MSC-12615-1	c 37	N76-19437 *	NASA-CASE-MSC-14939-1	c 32	N79-11264 *
NASA-CASE-MFS-26011-1SB	c 52	N85-20639 *	NASA-CASE-MSC-12617-1	c 35	N76-29552 *	NASA-CASE-MSC-15158-1	c 14	N72-17325 *
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NASA-CASE-MFS-28008-1	c 35	N85-20300 *	NASA-CASE-MSC-12619-2	c 27	N79-12221 *	NASA-CASE-MSC-15567-1	c 33	N73-16918 *
NASA-CASE-MFS-28013-1	c 89	N86-22459 *	NASA-CASE-MSC-12631-1	c 24	N77-28225 *	NASA-CASE-MSC-15626-1	c 14	N72-25411 *
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NASA-CASE-MFS-28060-1	c 76	N85-30932 *	NASA-CASE-MSC-12731-1	c 37	N78-25426 *	NASA-CASE-MSC-16170-2	c 32	N84-27952 *
NASA-CASE-MFS-28080-1	c 33	N86-20682 *	NASA-CASE-MSC-12737-1	c 24	N79-25142 *	NASA-CASE-MSC-16182-1	c 54	N80-10799 *
NASA-CASE-MFS-28090-1	c 27	N86-21684 *	NASA-CASE-MSC-12743-1	c 32	N79-10263 *	NASA-CASE-MSC-16217-1	c 31	N81-27303 *
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NASA-CASE-MRS-25791-1	c 09	N84-27749 *	NASA-CASE-MSC-13047-1	c 31	N71-25434 *	NASA-CASE-MSC-16253-1	c 32	N79-20297 *
NASA-CASE-MSC-10954-1	c 54	N78-18761 *	NASA-CASE-MSC-13054	c 54	N78-17677 *	NASA-CASE-MSC-16258-1	c 45	N79-12584 *
NASA-CASE-MSC-10959	c 15	N71-26243 *	NASA-CASE-MSC-13110-1	c 08	N72-22163 *	NASA-CASE-MSC-16260-1	c 51	N80-16714 *
NASA-CASE-MSC-10960-1	c 03	N71-24718 *	NASA-CASE-MSC-13112	c 03	N71-11057 *	NASA-CASE-MSC-16270-1	c 37	N78-27423 *
NASA-CASE-MSC-10966	c 14	N71-19568 *	NASA-CASE-MSC-13140	c 05	N72-11085 *	NASA-CASE-MSC-16370-1	c 35	N81-19427 *
NASA-CASE-MSC-11010	c 15	N71-19485 *	NASA-CASE-MSC-13201-1	c 07	N71-28429 *	NASA-CASE-MSC-16394-1	c 28	N81-24280 *
NASA-CASE-MSC-11072	c 54	N74-32546 *	NASA-CASE-MSC-13276-1	c 14	N71-27058 *	NASA-CASE-MSC-16433-1	c 52	N78-27750 *
NASA-CASE-MSC-11235	c 33	N78-17294 *	NASA-CASE-MSC-13281	c 31	N72-18859 *	NASA-CASE-MSC-16433-1	c 52	N81-24711 *
NASA-CASE-MSC-11242	c 35	N78-17358 *	NASA-CASE-MSC-13282-1	c 05	N71-24729 *	NASA-CASE-MSC-16461-1	c 33	N79-11313 *
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NASA-CASE-NPO-11358	c 07	N72-25172 *	#	NASA-CASE-NPO-13063-1	c 25	N76-18245 *	#	NASA-CASE-NPO-13545-1	c 32	N77-12240 *	#
NASA-CASE-NPO-11361	c 07	N72-32169 *	#	NASA-CASE-NPO-13064-1	c 33	N79-11314 *	#	NASA-CASE-NPO-13550-1	c 36	N77-26477 *	#
NASA-CASE-NPO-11366	c 11	N73-26238 *	#	NASA-CASE-NPO-13065-1	c 52	N74-26625 *	#	NASA-CASE-NPO-13553-1	c 33	N76-32457 *	#
NASA-CASE-NPO-11369	c 15	N73-13467 *	#	NASA-CASE-NPO-13067-1	c 60	N76-18800 *	#	NASA-CASE-NPO-13556-1	c 35	N84-33766 *	#
NASA-CASE-NPO-11371	c 08	N73-12177 *	#	NASA-CASE-NPO-13081-1	c 33	N74-22814 *	#	NASA-CASE-NPO-13560-1	c 44	N77-10636 *	#
NASA-CASE-NPO-11373	c 13	N72-25323 *	#	NASA-CASE-NPO-13086-1	c 15	N73-12495 *	#	NASA-CASE-NPO-13561-1	c 44	N77-10636 *	#
NASA-CASE-NPO-11377	c 15	N73-27406 *	#	NASA-CASE-NPO-13087-2	c 44	N76-31666 *	#	NASA-CASE-NPO-13566-1	c 25	N77-32255 *	#
NASA-CASE-NPO-11387	c 14	N73-14429 *	#	NASA-CASE-NPO-13091-1	c 09	N73-12214 *	#	NASA-CASE-NPO-13567-1	c 44	N76-29701 *	#
NASA-CASE-NPO-11388	c 03	N72-23048 *	#	NASA-CASE-NPO-13096-1	c 37	N77-22480 *	#	NASA-CASE-NPO-13568-1	c 32	N76-12365 *	#
NASA-CASE-NPO-11403-1	c 33	N77-22386 *	#	NASA-CASE-NPO-13103-1	c 32	N74-20811 *	#	NASA-CASE-NPO-13569-2	c 35	N79-14348 *	#
NASA-CASE-NPO-11406	c 08	N73-12175 *	#	NASA-CASE-NPO-13105-1	c 37	N74-21060 *	#	NASA-CASE-NPO-13579-1	c 44	N78-17460 *	#
NASA-CASE-NPO-11417	c 15	N73-24513 *	#	NASA-CASE-NPO-13112-1	c 73	N74-26767 *	#	NASA-CASE-NPO-13579-2	c 44	N79-24433 *	#
NASA-CASE-NPO-11418-1	c 14	N73-13420 *	#	NASA-CASE-NPO-13114-2	c 73	N78-28913 *	#	NASA-CASE-NPO-13579-3	c 44	N79-24432 *	#
NASA-CASE-NPO-11426	c 07	N73-26119 *	#	NASA-CASE-NPO-13120-1	c 27	N76-15311 *	#	NASA-CASE-NPO-13579-4	c 44	N79-14529 *	#
NASA-CASE-NPO-11429-1	c 74	N77-21941 *	#	NASA-CASE-NPO-13121-1	c 73	N77-18891 *	#	NASA-CASE-NPO-13581-2	c 44	N78-31525 *	#
NASA-CASE-NPO-11432-2	c 35	N74-15090 *	#	NASA-CASE-NPO-13125-1	c 33	N75-19519 *	#	NASA-CASE-NPO-13587-1	c 32	N77-32342 *	#
NASA-CASE-NPO-11437	c 16	N72-28521 *	#	NASA-CASE-NPO-13127-1	c 35	N74-23040 *	#	NASA-CASE-NPO-13604-1	c 35	N76-31490 *	#
NASA-CASE-NPO-11456	c 08	N73-26176 *	#	NASA-CASE-NPO-13131-1	c 36	N75-19652 *	#	NASA-CASE-NPO-13606-2	c 35	N80-18364 *	#
NASA-CASE-NPO-11458A	c 20	N78-32179 *	#	NASA-CASE-NPO-13137-1	c 27	N80-32514 *	#	NASA-CASE-NPO-13613-1	c 37	N76-29590 *	#
NASA-CASE-NPO-11458	c 28	N72-23810 *	#	NASA-CASE-NPO-13138-1	c 33	N74-17927 *	#	NASA-CASE-NPO-13619-1	c 37	N78-16369 *	#
NASA-CASE-NPO-11479	c 15	N73-13462 *	#	NASA-CASE-NPO-13139-1	c 60	N76-21914 *	#	NASA-CASE-NPO-13620-1	c 27	N77-30236 *	#
NASA-CASE-NPO-11481	c 21	N73-13644 *	#	NASA-CASE-NPO-13140-1	c 32	N75-24982 *	#	NASA-CASE-NPO-13641-1	c 32	N79-24210 *	#
NASA-CASE-NPO-11493	c 14	N73-12447 *	#	NASA-CASE-NPO-13147-1	c 36	N77-25502 *	#	NASA-CASE-NPO-13643-1	c 52	N76-29896 *	#
NASA-CASE-NPO-11497	c 08	N73-25206 *	#	NASA-CASE-NPO-13157-1	c 37	N74-32918 *	#	NASA-CASE-NPO-13644-1	c 52	N76-29895 *	#
NASA-CASE-NPO-11510-1	c 33	N77-21315 *	#	NASA-CASE-NPO-13159-1	c 33	N74-17928 *	#	NASA-CASE-NPO-13650-1	c 25	N79-28253 *	#
NASA-CASE-NPO-11515-1	c 33	N77-13315 *	#	NASA-CASE-NPO-13160-1	c 35	N74-18090 *	#	NASA-CASE-NPO-13652-1	c 44	N79-17314 *	#
NASA-CASE-NPO-11548	c 07	N73-26118 *	#	NASA-CASE-NPO-13170-1	c 35	N76-14430 *	#	NASA-CASE-NPO-13652-2	c 44	N79-24431 *	#
NASA-CASE-NPO-11556	c 12	N72-25292 *	#	NASA-CASE-NPO-13171-1	c 32	N74-11000 *	#	NASA-CASE-NPO-13652-3	c 44	N80-14474 *	#
NASA-CASE-NPO-11559	c 28	N73-24784 *	#	NASA-CASE-NPO-13175-1	c 36	N75-31427 *	#	NASA-CASE-NPO-13663-1	c 35	N77-14406 *	#
NASA-CASE-NPO-11569	c 10	N73-26229 *	#	NASA-CASE-NPO-13201-1	c 37	N75-15050 *	#	NASA-CASE-NPO-13666-1	c 27	N77-13217 *	#
NASA-CASE-NPO-11572	c 07	N73-16121 *	#	NASA-CASE-NPO-13205-1	c 31	N74-32917 *	#	NASA-CASE-NPO-13671-1	c 37	N77-31497 *	#
NASA-CASE-NPO-11575-1	c 74	N81-19898 *	#	NASA-CASE-NPO-13214-1	c 35	N75-25123 *	#	NASA-CASE-NPO-13673-1	c 71	N77-26919 *	#
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NASA-CASE-NPO-11609-2	c 27	N77-31308 *	#	NASA-CASE-NPO-13217-1	c 32	N75-26194 *	#	NASA-CASE-NPO-13676-1	c 60	N79-20571 *	#
NASA-CASE-NPO-11623-1	c 71	N74-31148 *	#	NASA-CASE-NPO-13231-1	c 45	N75-27585 *	#	NASA-CASE-NPO-13683-1	c 35	N77-14411 *	#
NASA-CASE-NPO-11628-1	c 07	N73-30113 *	#	NASA-CASE-NPO-13237-1	c 44	N76-18641 *	#	NASA-CASE-NPO-13687-1	c 35	N78-18391 *	#
NASA-CASE-NPO-11630	c 08	N72-33172 *	#	NASA-CASE-NPO-13247-1	c 76	N79-16678 *	#	NASA-CASE-NPO-13689-2	c 44	N81-29525 *	#
NASA-CASE-NPO-11631	c 10	N73-12244 *	#	NASA-CASE-NPO-13253-1	c 37	N75-18573 *	#	NASA-CASE-NPO-13689-4	c 44	N82-28780 *	#
NASA-CASE-NPO-11659-1	c 35	N74-11283 *	#	NASA-CASE-NPO-13263-1	c 12	N75-24774 *	#	NASA-CASE-NPO-13690-1	c 27	N78-19302 *	#
NASA-CASE-NPO-11661	c 07	N73-14130 *	#	NASA-CASE-NPO-13274-1	c 25	N79-10163 *	#	NASA-CASE-NPO-13690-2	c 27	N79-14213 *	#
NASA-CASE-NPO-11682-1	c 35	N74-15127 *	#	NASA-CASE-NPO-13281-1	c 37	N75-13266 *	#	NASA-CASE-NPO-13691-1	c 43	N79-17288 *	#
NASA-CASE-NPO-11686	c 14	N73-25462 *	#	NASA-CASE-NPO-13282	c 38	N78-17396 *	#	NASA-CASE-NPO-13707-1	c 74	N77-28933 *	#
NASA-CASE-NPO-11703-1	c 10	N73-32144 *	#	NASA-CASE-NPO-13283	c 38	N78-17395 *	#	NASA-CASE-NPO-13722-1	c 74	N77-22951 *	#
NASA-CASE-NPO-11707	c 07	N73-25161 *	#	NASA-CASE-NPO-13292-1	c 32	N75-15854 *	#	NASA-CASE-NPO-13731-1	c 39	N78-10493 *	#
NASA-CASE-NPO-11738-1	c 09	N73-30185 *	#	NASA-CASE-NPO-13303-1	c 20	N75-24837 *	#	NASA-CASE-NPO-13732-1	c 44	N79-10513 *	#
NASA-CASE-NPO-11743-1	c 28	N74-27425 *	#	NASA-CASE-NPO-13308-1	c 36	N75-30524 *	#	NASA-CASE-NPO-13734-1	c 44	N78-10554 *	#
NASA-CASE-NPO-11749	c 14	N73-28486 *	#	NASA-CASE-NPO-13309-1	c 25	N81-19244 *	#	NASA-CASE-NPO-13736-1	c 44	N77-32583 *	#
NASA-CASE-NPO-11751	c 07	N73-24176 *	#	NASA-CASE-NPO-13313-1	c 54	N75-27761 *	#	NASA-CASE-NPO-13753-1	c 32	N77-20289 *	#
NASA-CASE-NPO-11758-1	c 31	N74-23065 *	#	NASA-CASE-NPO-13321-1	c 32	N75-26195 *	#	NASA-CASE-NPO-13758-2	c 31	N81-15154 *	#
NASA-CASE-NPO-11771	c 03	N73-20040 *	#	NASA-CASE-NPO-13327-1	c 35	N75-23910 *	#	NASA-CASE-NPO-13759-1	c 74	N78-17867 *	#
NASA-CASE-NPO-11775	c 26	N72-28761 *	#	NASA-CASE-NPO-13342-1	c 37	N76-16446 *	#	NASA-CASE-NPO-13763-1	c 44	N78-33526 *	#
NASA-CASE-NPO-11806-1	c 44	N74-19693 *	#	NASA-CASE-NPO-13342-2	c 44	N76-29700 *	#	NASA-CASE-NPO-13764-1	c 27	N78-17215 *	#
NASA-CASE-NPO-11820-1	c 32	N74-19788 *	#	NASA-CASE-NPO-13345-1	c 37	N75-19684 *	#	NASA-CASE-NPO-13772-1	c 35	N78-10429 *	#
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NASA-CASE-NPO-11856-1	c 36	N74-15145 *	#	NASA-CASE-NPO-13360-1	c 37	N75-25185 *	#	NASA-CASE-NPO-13801-1	c 36	N78-18410 *	#
NASA-CASE-NPO-11861-1	c 36	N74-20009 *	#	NASA-CASE-NPO-13374-1	c 33	N75-19524 *	#	NASA-CASE-NPO-13802-1	c 71	N78-10837 *	#
NASA-CASE-NPO-11868	c 10	N73-20254 *	#	NASA-CASE-NPO-13385-1	c 33	N76-18345 *	#	NASA-CASE-NPO-13804-1	c 33	N80-23559 *	#
NASA-CASE-NPO-11880	c 28	N73-24783 *	#	NASA-CASE-NPO-13386-1	c 54	N77-27758 *	#	NASA-CASE-NPO-13808-1	c 35	N78-15461 *	#
NASA-CASE-NPO-11905-1	c 33	N74-12887 *	#	NASA-CASE-NPO-13388-1	c 35	N76-16390 *	#	NASA-CASE-NPO-13810-1	c 44	N77-32582 *	#
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NASA-CASE-NPO-11921-1	c 32	N74-30523 *	#	NASA-CASE-NPO-13396-1	c 35	N76-18401 *	#	NASA-CASE-NPO-13813-1	c 44	N78-31526 *	#
NASA-CASE-NPO-11932-1	c 35	N74-23040 *	#	NASA-CASE-NPO-13402-1	c 37	N76-18457 *	#	NASA-CASE-NPO-13817-1	c 44	N79-11471 *	#
NASA-CASE-NPO-11941-1	c 10	N73-27171 *	#	NASA-CASE-NPO-13422-1	c 60	N76-14818 *	#	NASA-CASE-NPO-13821-1	c 44	N78-28594 *	#
NASA-CASE-NPO-11942-1	c 33	N73-32818 *	#	NASA-CASE-NPO-13423-1	c 33	N75-31329 *	#	NASA-CASE-NPO-13823-1	c 37	N81-25371 *	#
NASA-CASE-NPO-11945-1	c 36	N76-18427 *	#	NASA-CASE-NPO-13426-1	c 33	N75-31320 *	#	NASA-CASE-NPO-13828-1	c 37	N79-11405 *	#
NASA-CASE-NPO-11948-1	c 33	N74-32712 *	#	NASA-CASE-NPO-13428-1	c 60	N77-12721 *	#	NASA-CASE-NPO-13830-1	c 32	N80-14281 *	#
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NASA-CASE-NPO-11961-1	c 44	N76-18643 *	#	NASA-CASE-NPO-13443-1	c 76	N76-20994 *	#	NASA-CASE-NPO-13847-2	c 85	N79-17747 *	#
NASA-CASE-NPO-11962-1	c 33	N74-10194 *	#	NASA-CASE-NPO-13447-1	c 60	N77-12721 *	#	NASA-CASE-NPO-13848-2	c 85	N79-17747 *	#
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NASA-CASE-NPO-11975-1	c 28	N74-33209 *	#	NASA-CASE-NPO-13451-1	c 33	N76-14373 *	#	NASA-CASE-NPO-13858-1	c 28	N79-11231 *	#
NASA-CASE-NPO-11978	c 31	N78-172									

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NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *	NASA-CASE-NPO-15264-1	c 04	N84-27713 *
NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *	NASA-CASE-NPO-15269-1	c 44	N82-29710 *
NASA-CASE-NPO-13907-1	c 28	N80-10374 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *	NASA-CASE-NPO-15292-1	c 35	N83-27184 *
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NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *	NASA-CASE-NPO-15345-1	c 74	N84-23247 *
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NASA-CASE-NPO-13935-1	c 52	N79-14751 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *	NASA-CASE-NPO-15351-2	c 06	N84-34443 *
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NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14416-1	c 44	N81-14389 *	NASA-CASE-NPO-15375-1	c 74	N84-11921 *
NASA-CASE-NPO-13944-1	c 52	N79-14751 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *	NASA-CASE-NPO-15388-1	c 44	N84-28203 *
NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14426-1	c 33	N79-17134 *	NASA-CASE-NPO-15398-1	c 35	N84-22931 *
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NASA-CASE-NPO-13969-1	c 76	N79-23798 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *	NASA-CASE-NPO-15423-1	c 35	N84-28016 *
NASA-CASE-NPO-13970-1	c 33	N81-20352 *	NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15426-1	c 35	N84-17555 *
NASA-CASE-NPO-13982-1	c 32	N79-14267 *	NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15430-1	c 46	N85-21846 *
NASA-CASE-NPO-13993-1	c 72	N79-13826 *	NASA-CASE-NPO-14473-1	c 37	N80-23654 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *
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NASA-CASE-NPO-14022-1	c 32	N78-31321 *	NASA-CASE-NPO-14521-1	c 54	N79-20746 *	NASA-CASE-NPO-15483-1	c 37	N85-21650 *
NASA-CASE-NPO-14035-1	c 32	N83-19968 *	NASA-CASE-NPO-14521-1	c 37	N81-27519 *	NASA-CASE-NPO-15494-1	c 35	N82-25484 *
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NASA-CASE-NPO-14058-1	c 44	N79-18443 *	NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *
NASA-CASE-NPO-14066-1	c 74	N79-34011 *	NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *
NASA-CASE-NPO-14078-1	c 72	N80-14877 *	NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *
NASA-CASE-NPO-14079-1	c 25	N80-20334 *	NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *
NASA-CASE-NPO-14092-1	c 52	N80-16725 *	NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *
NASA-CASE-NPO-14093-1	c 35	N80-20563 *	NASA-CASE-NPO-14549-2	c 52	N82-33996 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *
NASA-CASE-NPO-14096-1	c 44	N80-18551 *	NASA-CASE-NPO-14554-1	c 60	N81-27814 *	NASA-CASE-NPO-15555-1	c 71	N85-30765 *
NASA-CASE-NPO-14100-1	c 44	N79-12541 *	NASA-CASE-NPO-14556-1	c 33	N82-24418 *	NASA-CASE-NPO-15558-1	c 35	N84-34705 *
NASA-CASE-NPO-14101-1	c 52	N80-14687 *	NASA-CASE-NPO-14558-1	c 46	N80-24906 *	NASA-CASE-NPO-15560-1	c 33	N85-21491 *
NASA-CASE-NPO-14103-1	c 28	N78-31255 *	NASA-CASE-NPO-14567-1	c 33	N83-18996 *	NASA-CASE-NPO-15562-1	c 71	N82-27086 *
NASA-CASE-NPO-14109-1	c 28	N80-23471 *	NASA-CASE-NPO-14579-1	c 32	N80-18253 *	NASA-CASE-NPO-15592-1	c 71	N84-16940 *
NASA-CASE-NPO-14110-1	c 28	N81-15119 *	NASA-CASE-NPO-14588-1	c 32	N81-25278 *	NASA-CASE-NPO-15617-1	c 35	N82-33681 *
NASA-CASE-NPO-14112-1	c 46	N79-22679 *	NASA-CASE-NPO-14590-1	c 32	N80-18253 *	NASA-CASE-NPO-15625-1	c 76	N83-20789 *
NASA-CASE-NPO-14124-1	c 46	N80-14603 *	NASA-CASE-NPO-14596-1	c 31	N81-33319 *	NASA-CASE-NPO-15629-1	c 76	N84-35113 *
NASA-CASE-NPO-14126-1	c 44	N79-11470 *	NASA-CASE-NPO-14596-3	c 31	N83-31896 *	NASA-CASE-NPO-15640-1	c 27	N84-22748 *
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NASA-CASE-NPO-14134-1	c 71	N79-23753 *	NASA-CASE-NPO-14617-1	c 33	N81-24338 *	NASA-CASE-NPO-15651-1	c 43	N85-21723 *
NASA-CASE-NPO-14140-1	c 31	N78-24387 *	NASA-CASE-NPO-14619-1	c 44	N81-17518 *	NASA-CASE-NPO-15656-1	c 43	N84-23012 *
NASA-CASE-NPO-14140-1	c 43	N81-26509 *	NASA-CASE-NPO-14632-1	c 32	N82-18443 *	NASA-CASE-NPO-15658-1	c 26	N83-19890 *
NASA-CASE-NPO-14143-1	c 25	N81-14015 *	NASA-CASE-NPO-14635-1	c 44	N80-24741 *	NASA-CASE-NPO-15662-1	c 44	N84-28204 *
NASA-CASE-NPO-14152-1	c 32	N80-18252 *	NASA-CASE-NPO-14640-1	c 32	N80-32605 *	NASA-CASE-NPO-15689-1	c 71	N84-23233 *
NASA-CASE-NPO-14162-1	c 60	N81-15706 *	NASA-CASE-NPO-14641-1	c 32	N81-29308 *	NASA-CASE-NPO-15696-1	c 33	N85-34333 *
NASA-CASE-NPO-14163-1	c 33	N81-14220 *	NASA-CASE-NPO-14657-1	c 74	N81-17887 *	NASA-CASE-NPO-15704-1	c 32	N85-34327 *
NASA-CASE-NPO-14167-1	c 60	N81-15706 *	NASA-CASE-NPO-14670-1	c 44	N81-19558 *	NASA-CASE-NPO-15706-1	c 35	N84-28017 *
NASA-CASE-NPO-14169-1	c 60	N81-15706 *	NASA-CASE-NPO-14749-1	c 32	N81-14186 *	NASA-CASE-NPO-15722-1	c 35	N85-29212 *
NASA-CASE-NPO-14170-1	c 37	N81-15364 *	NASA-CASE-NPO-14782-1	c 36	N82-28616 *	NASA-CASE-NPO-15743-1	c 32	N85-29118 *
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NASA-CASE-NPO-14174-1	c 74	N79-20856 *	NASA-CASE-NPO-14831-1	c 76	N82-30105 *	NASA-CASE-NPO-15759-1	c 35	N85-21596 *
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NASA-CASE-NPO-14192-1	c 39	N80-10507 *	NASA-CASE-NPO-14845-1	c 27	N82-28442 *	NASA-CASE-NPO-15772-1	c 76	N85-29800 *
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NASA-CASE-NPO-14219-1	c 74	N81-17886 *	NASA-CASE-NPO-14940-1	c 33	N83-31954 *	NASA-CASE-NPO-15801-1	c 74	N85-23396 *
NASA-CASE-NPO-14220-1	c 37	N81-14318 *	NASA-CASE-NPO-14987-1	c 24	N83-33950 *	NASA-CASE-NPO-15805-1	c 74	N84-28590 *
NASA-CASE-NPO-14221-1	c 37	N81-25370 *	NASA-CASE-NPO-14998-1	c 33	N81-15194 *	NASA-CASE-NPO-15808-1	c 44	N84-34792 *
NASA-CASE-NPO-14224-1	c 33	N80-18287 *	NASA-CASE-NPO-14998-1	c 32	N83-18975 *	NASA-CASE-NPO-15811-1	c 76	N84-12968 *
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NASA-CASE-NPO-14231-1	c 46	N80-10709 *	NASA-CASE-NPO-15021-1	c 36	N83-10417 *	NASA-CASE-NPO-15813-2	c 76	N85-30933 *
NASA-CASE-NPO-14237-1	c 44	N80-20808 *	NASA-CASE-NPO-15024-1	c 32	N84-27951 *	NASA-CASE-NPO-15828-1	c 74	N83-30222 *
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NASA-CASE-NPO-14260-1	c 28	N79-28342 *	NASA-CASE-NPO-15071-1	c 44	N82-16475 *	NASA-CASE-NPO-15920-1	c 33	N85-21493 *
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NASA-CASE-NPO-14273-1	c 25	N82-11144 *	NASA-CASE-NPO-15102-1	c 25	N81-25159 *	NASA-CASE-NPO-15928-1	c 26	N85-29005 *
NASA-CASE-NPO-14295-1	c 76	N80-32245 *	NASA-CASE-NPO-15111-1	c 36	N82-29589 *	NASA-CASE-NPO-15935-1	c 33	N83-12334 *
NASA-CASE-NPO-14297-1	c 33	N81-19389 *	NASA-CASE-NPO-15115-1	c 37	N82-24493 *	NASA-CASE-NPO-15939-1	c 43	N86-19711 *
NASA-CASE-NPO-14298-1	c 76	N80-32244 *	NASA-CASE-NPO-15155-1	c 74	N85-22139 *	NASA-CASE-NPO-15949-1	c 85	N85-34722 *
NASA-CASE-NPO-14303-1	c 44	N80-18550 *	NASA-CASE-NPO-15161-1	c 33	N84-16456 *	NASA-CASE-NPO-15960-1	c 37	N86-19604 *
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NASA-CASE-NPO-14311-1	c 33	N82-29539 *	NASA-CASE-NPO-15183-1	c 44	N82-26776 *	NASA-CASE-NPO-15980-1	c 36	N85-30305 *
NASA-CASE-NPO-14315-1	c 27	N81-17261 *	NASA-CASE-NPO-15197-1	c 52	N83-25346 *	NASA-CASE-NPO-15982-1	c 60	N85-20680 *
NASA-CASE-NPO-14316-1	c 33	N81-33404 *	NASA-CASE-NPO-15201-1	c 36	N83-35350 *	NASA-CASE-NPO-16000-1	c 36	N85-29264 *
NASA-CASE-NPO-14324-1	c 72	N80-27163 *	NASA-CASE-NPO-15202-1	c 27	N83-34043 *	NASA-CASE-NPO-16021-1	c 33	N85-30187 *
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NASA-CASE-NPO-16236-1	c 44	N84-25164 *	#	NASA-CASE-XAC-08494	c 30	N71-15990 *	NASA-CASE-XGS-01593	c 03	N70-35408 *
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NASA-CASE-NPO-16337-1	c 73	N85-20251 *	#	NASA-CASE-XAC-11225	c 14	N69-27486 *	NASA-CASE-XGS-02011	c 15	N71-20739 *
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NASA-CASE-NPO-16392-1	c 44	N84-32912 *	#	NASA-CASE-XAR-01547	c 05	N69-21473 *	NASA-CASE-XGS-02290	c 07	N71-28809 *
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NASA-CASE-NPO-16526-1CU	c 44	N86-21981 *	#	NASA-CASE-XER-11203	c 14	N71-28994 *	NASA-CASE-XGS-02610	c 14	N71-23174 *
NASA-CASE-NPO-16542-1-CU	c 36	N86-20780 *	#				NASA-CASE-XGS-02612	c 08	N71-19435 *
NASA-CASE-NPO-16544-1-CU	c 35	N86-20755 *	#	NASA-CASE-XFR-00181	c 21	N70-33279 *	NASA-CASE-XGS-02629	c 14	N71-21082 *
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NASA-CASE-NUC-10107-1	c 33	N74-17930 *	#	NASA-CASE-XFR-04147	c 11	N71-10748 *	NASA-CASE-XGS-02889	c 07	N71-11822 *
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							NASA-CASE-XGS-03427	c 10	N71-23029 *
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NASA-CASE-XLA-00189	c 33	N70-36846 *	NASA-CASE-XLA-01804	c 02	N70-34160 *	NASA-CASE-XLA-07390	c 15	N71-18616 *
NASA-CASE-XLA-00195	c 02	N70-38009 *	NASA-CASE-XLA-01807	c 15	N71-10799 *	NASA-CASE-XLA-07391	c 12	N71-17579 *
NASA-CASE-XLA-00203	c 14	N70-34161 *	NASA-CASE-XLA-01808	c 15	N71-20740 *	NASA-CASE-XLA-07424	c 14	N71-18482 *
NASA-CASE-XLA-00204	c 32	N70-36536 *	NASA-CASE-XLA-01832	c 14	N71-21006 *	NASA-CASE-XLA-07430	c 11	N72-22246 *
NASA-CASE-XLA-00210	c 30	N70-40309 *	NASA-CASE-XLA-01907	c 14	N71-23268 *	NASA-CASE-XLA-07473	c 15	N71-24895 *
NASA-CASE-XLA-00221	c 02	N70-33266 *	NASA-CASE-XLA-01926	c 14	N71-15620 *	NASA-CASE-XLA-07497	c 09	N71-12514 *
NASA-CASE-XLA-00229	c 12	N70-33305 *	NASA-CASE-XLA-01952	c 08	N71-12507 *	NASA-CASE-XLA-07728	c 33	N71-22890 *
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						NASA-CASE-XLA-07813	c 14	N72-17328 *

NASA-CASE-XLA-07828	c 08	N71-27057 *	NASA-CASE-XLE-00685	c 28	N70-41992 *	NASA-CASE-XLE-05230-2	c 14	N73-13417 *
NASA-CASE-XLA-07829	c 15	N72-16329 *	NASA-CASE-XLE-00688	c 14	N70-41330 *	NASA-CASE-XLE-05230	c 14	N72-27410 *
NASA-CASE-XLA-07911	c 15	N71-15571 *	NASA-CASE-XLE-00690	c 25	N69-39884 *	NASA-CASE-XLE-05260	c 14	N71-20429 *
NASA-CASE-XLA-08254	c 14	N71-26161 *	NASA-CASE-XLE-00702	c 14	N70-40203 *	NASA-CASE-XLE-05641-1	c 15	N72-26346 *
NASA-CASE-XLA-08491	c 05	N69-21380 *	NASA-CASE-XLE-00703	c 15	N71-15967 *	NASA-CASE-XLE-05689	c 28	N71-15659 *
NASA-CASE-XLA-08493	c 10	N71-19421 *	NASA-CASE-XLE-00715	c 15	N70-34859 *	NASA-CASE-XLE-05913	c 33	N71-14032 *
NASA-CASE-XLA-08507	c 09	N69-39984 *	NASA-CASE-XLE-00720	c 14	N70-40201 *	NASA-CASE-XLE-06094	c 33	N78-17293 *
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NASA-CASE-XLA-08645	c 15	N69-21465 *	NASA-CASE-XLE-00785	c 33	N71-16104 *	NASA-CASE-XLE-06461	c 17	N72-22530 *
NASA-CASE-XLA-08646	c 14	N71-17586 *	NASA-CASE-XLE-00787	c 14	N71-21090 *	NASA-CASE-XLE-06773	c 15	N71-23817 *
NASA-CASE-XLA-08799	c 10	N71-27272 *	NASA-CASE-XLE-00808	c 24	N71-10560 *	NASA-CASE-XLE-06774-2	c 05	N72-25150 *
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NASA-CASE-XLA-09346	c 15	N71-28740 *	NASA-CASE-XLE-01246	c 14	N71-10797 *	NASA-CASE-XLE-09475-1	c 33	N71-15568 *
NASA-CASE-XLA-09371	c 10	N71-18724 *	NASA-CASE-XLE-01300	c 15	N70-41993 *	NASA-CASE-XLE-09527-2	c 15	N71-26189 *
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NASA-CASE-XLA-10450	c 28	N71-21493 *	NASA-CASE-XLE-01604-2	c 15	N71-15610 *	NASA-CASE-XLE-10453-2	c 28	N73-27699 *
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NASA-CASE-XLA-11154	c 07	N72-21117 *	NASA-CASE-XLE-01716	c 09	N70-40234 *	NASA-CASE-XLE-10717	c 37	N75-29426 *
NASA-CASE-XLA-11189	c 10	N72-20222 *	NASA-CASE-XLE-01765	c 18	N71-10772 *	NASA-CASE-XLE-10910	c 18	N71-29040 *
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NASA-CASE-XLE-00010	c 15	N70-33382 *	NASA-CASE-XLE-02008	c 09	N71-21583 *	NASA-CASE-XMF-00324	c 09	N70-34596 *
NASA-CASE-XLE-00011	c 14	N70-41946 *	NASA-CASE-XLE-02024	c 14	N71-22964 *	NASA-CASE-XMF-00339	c 15	N70-39898 *
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NASA-CASE-XLE-00143	c 14	N70-36618 *	NASA-CASE-XLE-02823	c 09	N71-23443 *	NASA-CASE-XMF-00480	c 14	N70-39898 *
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NASA-CASE-XLE-00177	c 28	N70-40367 *	NASA-CASE-XLE-03280	c 14	N71-23093 *	NASA-CASE-XMF-00701	c 09	N70-40272 *
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NASA-CASE-XLE-00228	c 17	N70-38490 *	NASA-CASE-XLE-03629	c 17	N71-23248 *	NASA-CASE-XMF-01016	c 26	N71-17818 *
NASA-CASE-XLE-00231	c 17	N70-38198 *	NASA-CASE-XLE-03778	c 09	N69-21542 *	NASA-CASE-XMF-01030	c 18	N70-41583 *
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NASA-CASE-XLE-00252	c 11	N70-34844 *	NASA-CASE-XLE-03803	c 15	N71-23816 *	NASA-CASE-XMF-01049	c 15	N71-23049 *
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NASA-CASE-XLE-00283	c 17	N70-36616 *	NASA-CASE-XLE-03940-2	c 17	N72-28536 *	NASA-CASE-XMF-01097	c 10	N71-16058 *
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NASA-CASE-XLE-00345	c 15	N70-38020 *	NASA-CASE-XLE-04503	c 14	N71-24864 *	NASA-CASE-XMF-01402	c 18	N71-21651 *
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NASA-CASE-XLE-00519	c 28	N70-41576 *	NASA-CASE-XLE-05033	c 15	N71-23810 *	NASA-CASE-XMF-01779	c 12	N71-20815 *
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NASA-CASE-XLE-00660	c 28	N70-39925 *	NASA-CASE-XLE-05130	c 15	N69-21362 *	NASA-CASE-XMF-01892	c 10	N71-22986 *

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NASA-CASE-XMF-02039	c 15	N71-15871 *	#	NASA-CASE-XMF-08665	c 10	N71-19467 *	#	NASA-CASE-XMS-04919	c 09	N71-23270 *	#
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NASA-CASE-XMF-02822	c 14	N70-41994 *	#	NASA-CASE-XMS-00784	c 05	N71-12335 *	#	NASA-CASE-XMS-05936	c 14	N70-41682 *	#
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US-PATENT-APPL-SN-079913	c 05	N82-28279	* #	US-PATENT-APPL-SN-115536	c 33	N82-24417	* #	US-PATENT-APPL-SN-138230	c 32	N73-20740	* #
US-PATENT-APPL-SN-088663	c 28	N82-18401	* #	US-PATENT-APPL-SN-115944	c 03	N71-34044	* #	US-PATENT-APPL-SN-138944	c 37	N82-26672	* #
US-PATENT-APPL-SN-089779	c 26	N81-25188	* #	US-PATENT-APPL-SN-116777	c 09	N73-19235	* #	US-PATENT-APPL-SN-139006	c 09	N70-38604	* #
US-PATENT-APPL-SN-090584	c 74	N81-19896	* #	US-PATENT-APPL-SN-116778	c 09	N72-33205	* #	US-PATENT-APPL-SN-139007	c 28	N70-37245	* #
US-PATENT-APPL-SN-0914	c 28	N70-38711	* #	US-PATENT-APPL-SN-116786	c 07	N72-25172	* #	US-PATENT-APPL-SN-139012	c 03	N70-38713	* #
US-PATENT-APPL-SN-092141	c 27	N81-29229	* #	US-PATENT-APPL-SN-116790	c 14	N73-30388	* #	US-PATENT-APPL-SN-139094	c 05	N73-32011	* #
US-PATENT-APPL-SN-092142	c 27	N82-11206	* #	US-PATENT-APPL-SN-117175	c 08	N73-12177	* #	US-PATENT-APPL-SN-139250	c 04	N73-27052	* #
US-PATENT-APPL-SN-092143	c 32	N82-18443	* #	US-PATENT-APPL-SN-118569	c 14	N70-35220	* #	US-PATENT-APPL-SN-139528	c 03	N72-25020	* #
US-PATENT-APPL-SN-092145	c 37	N82-12442	* #	US-PATENT-APPL-SN-118200	c 15	N70-34247	* #	US-PATENT-APPL-SN-139596	c 33	N77-13315	* #
US-PATENT-APPL-SN-093714	c 44	N81-29525	* #	US-PATENT-APPL-SN-118202	c 28	N70-38710	* #	US-PATENT-APPL-SN-140439	c 33	N75-19518	* #
US-PATENT-APPL-SN-095217	c 74	N81-19898	* #	US-PATENT-APPL-SN-118203	c 14	N70-38602	* #	US-PATENT-APPL-SN-140443	c 09	N70-35219	* #
US-PATENT-APPL-SN-096255	c 37	N80-18400	* #	US-PATENT-APPL-SN-118269	c 33	N73-26958	* #	US-PATENT-APPL-SN-140509	c 09	N70-35382	* #
US-PATENT-APPL-SN-096255	c 37	N82-19540	* #	US-PATENT-APPL-SN-118270	c 09	N72-25260	* #	US-PATENT-APPL-SN-140946	c 18	N73-26572	* #
US-PATENT-APPL-SN-096257	c 37	N82-24490	* #	US-PATENT-APPL-SN-11853	c 15	N71-28951	* #	US-PATENT-APPL-SN-140946	c 27	N74-27037	* #
US-PATENT-APPL-SN-098568	c 33	N82-11357	* #	US-PATENT-APPL-SN-119282	c 03	N72-23048	* #	US-PATENT-APPL-SN-141220	c 33	N70-37979	* #
US-PATENT-APPL-SN-098569	c 44	N82-16474	* #	US-PATENT-APPL-SN-119334	c 26	N80-19237	* #	US-PATENT-APPL-SN-142583	c 37	N79-33469	* #
US-PATENT-APPL-SN-098570	c 44	N82-18686	* #	US-PATENT-APPL-SN-119335	c 37	N82-24494	* #	US-PATENT-APPL-SN-142662	c 23	N73-13661	* #
US-PATENT-APPL-SN-100611	c 37	N82-32732	* #	US-PATENT-APPL-SN-119336	c 33	N82-24421	* #	US-PATENT-APPL-SN-142719	c 14	N73-14429	* #
US-PATENT-APPL-SN-100637	c 37	N75-18574	* #	US-PATENT-APPL-SN-119337	c 24	N81-33235	* #	US-PATENT-APPL-SN-143078	c 08	N72-33172	* #
US-PATENT-APPL-SN-100639	c 14	N72-32452	* #	US-PATENT-APPL-SN-119339	c 36	N82-28616	* #	US-PATENT-APPL-SN-143508	c 33	N74-12913	* #
US-PATENT-APPL-SN-100774	c 06	N72-25151	* #	US-PATENT-APPL-SN-119340	c 35	N82-11432	* #	US-PATENT-APPL-SN-144139	c 11	N73-26238	* #
US-PATENT-APPL-SN-100774	c 06	N73-32030	* #	US-PATENT-APPL-SN-120241	c 15	N73-24513	* #	US-PATENT-APPL-SN-144803	c 11	N70-34844	* #
US-PATENT-APPL-SN-100996	c 08	N73-13187	* #	US-PATENT-APPL-SN-120795	c 07	N70-40202	* #	US-PATENT-APPL-SN-144804	c 14	N70-39898	* #
US-PATENT-APPL-SN-101029	c 31	N70-38676	* #	US-PATENT-APPL-SN-120797	c 14	N70-36824	* #	US-PATENT-APPL-SN-14488	c 09	N70-38995	* #
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US-PATENT-APPL-SN-145282	c 74	N82-24072 *	#	US-PATENT-APPL-SN-167719	c 16	N73-33397 *	#	US-PATENT-APPL-SN-186700	c 32	N74-12912 *	#
US-PATENT-APPL-SN-145283	c 27	N81-24256 *	#	US-PATENT-APPL-SN-16808	c 14	N72-22445 *	#	US-PATENT-APPL-SN-186881	c 74	N82-30071 *	#
US-PATENT-APPL-SN-145284	c 27	N82-24338 *	#	US-PATENT-APPL-SN-168560	c 02	N70-34856 *	#	US-PATENT-APPL-SN-187106	c 74	N83-17305 *	#
US-PATENT-APPL-SN-146217	c 14	N71-34389 *	#	US-PATENT-APPL-SN-168650	c 14	N73-13416 *	#	US-PATENT-APPL-SN-187143	c 36	N74-13205 *	#
US-PATENT-APPL-SN-146935	c 14	N73-20475 *	#	US-PATENT-APPL-SN-168943	c 54	N82-26987 *	#	US-PATENT-APPL-SN-187262	c 15	N73-27406 *	#
US-PATENT-APPL-SN-146939	c 73	N75-30876 *	#	US-PATENT-APPL-SN-168944	c 37	N82-32731 *	#	US-PATENT-APPL-SN-187365	c 35	N74-15127 *	#
US-PATENT-APPL-SN-146940	c 05	N73-32014 *	#	US-PATENT-APPL-SN-169671	c 10	N73-30205 *	#	US-PATENT-APPL-SN-187446	c 31	N70-37924 *	#
US-PATENT-APPL-SN-147099	c 14	N73-13417 *	#	US-PATENT-APPL-SN-169962	c 34	N74-30608 *	#	US-PATENT-APPL-SN-18776	c 28	N70-33284 *	#
US-PATENT-APPL-SN-147103	c 10	N73-20253 *	#	US-PATENT-APPL-SN-169977	c 14	N70-34794 *	#	US-PATENT-APPL-SN-18780	c 12	N70-33305 *	#
US-PATENT-APPL-SN-147695	c 32	N84-27952 *	#	US-PATENT-APPL-SN-170440	c 15	N73-13462 *	#	US-PATENT-APPL-SN-188160	c 74	N82-19029 *	#
US-PATENT-APPL-SN-147700	c 27	N82-24339 *	#	US-PATENT-APPL-SN-170544	c 36	N77-19416 *	#	US-PATENT-APPL-SN-188594	c 15	N70-34967 *	#
US-PATENT-APPL-SN-147922	c 28	N73-19793 *	#	US-PATENT-APPL-SN-170680	c 34	N74-15652 *	#	US-PATENT-APPL-SN-188836	c 35	N74-34857 *	#
US-PATENT-APPL-SN-147940	c 14	N72-10375 *	#	US-PATENT-APPL-SN-170681	c 10	N73-25240 *	#	US-PATENT-APPL-SN-188927	c 08	N73-32081 *	#
US-PATENT-APPL-SN-147996	c 28	N73-24784 *	#	US-PATENT-APPL-SN-171011	c 28	N72-18766 *	#	US-PATENT-APPL-SN-188928	c 37	N74-13178 *	#
US-PATENT-APPL-SN-147997	c 15	N72-33477 *	#	US-PATENT-APPL-SN-171928	c 33	N82-26570 *	#	US-PATENT-APPL-SN-189290	c 14	N73-27379 *	#
US-PATENT-APPL-SN-148001	c 14	N70-34298 *	#	US-PATENT-APPL-SN-171933	c 37	N82-12441 *	#	US-PATENT-APPL-SN-189375	c 18	N73-14584 *	#
US-PATENT-APPL-SN-148756	c 15	N73-13466 *	#	US-PATENT-APPL-SN-171934	c 35	N82-26628 *	#	US-PATENT-APPL-SN-189438	c 35	N76-15431 *	#
US-PATENT-APPL-SN-149283	c 35	N74-17153 *	#	US-PATENT-APPL-SN-172098	c 33	N80-29583 *	#	US-PATENT-APPL-SN-189648	c 32	N70-36536 *	#
US-PATENT-APPL-SN-149526	c 52	N82-33996 *	#	US-PATENT-APPL-SN-172099	c 32	N82-27558 *	#	US-PATENT-APPL-SN-189882	c 28	N72-11708 *	#
US-PATENT-APPL-SN-149983	c 31	N72-21893 *	#	US-PATENT-APPL-SN-172100	c 27	N82-33520 *	#	US-PATENT-APPL-SN-190316	c 17	N73-32414 *	#
US-PATENT-APPL-SN-150040	c 36	N82-29589 *	#	US-PATENT-APPL-SN-172459	c 06	N73-16106 *	#	US-PATENT-APPL-SN-191301	c 25	N74-12813 *	#
US-PATENT-APPL-SN-150115	c 44	N82-16475 *	#	US-PATENT-APPL-SN-172727	c 33	N81-26360 *	#	US-PATENT-APPL-SN-191744	c 33	N82-29338 *	#
US-PATENT-APPL-SN-150191	c 15	N72-17455 *	#	US-PATENT-APPL-SN-172807	c 07	N73-28012 *	#	US-PATENT-APPL-SN-191746	c 26	N81-16209 *	#
US-PATENT-APPL-SN-15020	c 14	N70-34697 *	#	US-PATENT-APPL-SN-173081	c 28	N70-36806 *	#	US-PATENT-APPL-SN-191746	c 26	N82-30371 *	#
US-PATENT-APPL-SN-150215	c 33	N73-25952 *	#	US-PATENT-APPL-SN-173178	c 33	N77-21315 *	#	US-PATENT-APPL-SN-191748	c 35	N82-31659 *	#
US-PATENT-APPL-SN-15022	c 15	N72-21465 *	#	US-PATENT-APPL-SN-173185	c 23	N73-13660 *	#	US-PATENT-APPL-SN-192016	c 03	N70-36778 *	#
US-PATENT-APPL-SN-15023	c 15	N70-34699 *	#	US-PATENT-APPL-SN-173190	c 05	N73-32015 *	#	US-PATENT-APPL-SN-192101	c 10	N73-20254 *	#
US-PATENT-APPL-SN-15024	c 09	N72-21245 *	#	US-PATENT-APPL-SN-173518	c 60	N82-29013 *	#	US-PATENT-APPL-SN-192141	c 07	N74-24176 *	#
US-PATENT-APPL-SN-15025	c 03	N72-20033 *	#	US-PATENT-APPL-SN-173519	c 44	N82-26776 *	#	US-PATENT-APPL-SN-192803	c 07	N73-22076 *	#
US-PATENT-APPL-SN-150690	c 35	N79-33450 *	#	US-PATENT-APPL-SN-173520	c 31	N83-27058 *	#	US-PATENT-APPL-SN-192803	c 35	N76-16391 *	#
US-PATENT-APPL-SN-151112	c 15	N70-34814 *	#	US-PATENT-APPL-SN-173524	c 35	N82-32659 *	#	US-PATENT-APPL-SN-192970	c 23	N73-30665 *	#
US-PATENT-APPL-SN-151114	c 31	N70-34176 *	#	US-PATENT-APPL-SN-173981	c 14	N70-35666 *	#	US-PATENT-APPL-SN-193456	c 10	N73-25243 *	#
US-PATENT-APPL-SN-151411	c 07	N73-26118 *	#	US-PATENT-APPL-SN-174684	c 33	N75-31331 *	#	US-PATENT-APPL-SN-193671	c 15	N73-12488 *	#
US-PATENT-APPL-SN-151412	c 09	N73-32112 *	#	US-PATENT-APPL-SN-175267	c 14	N73-28486 *	#	US-PATENT-APPL-SN-193672	c 54	N74-14845 *	#
US-PATENT-APPL-SN-151413	c 14	N73-12447 *	#	US-PATENT-APPL-SN-175452	c 27	N81-27272 *	#	US-PATENT-APPL-SN-193814	c 14	N73-30393 *	#
US-PATENT-APPL-SN-151598	c 03	N70-34134 *	#	US-PATENT-APPL-SN-175452	c 27	N85-21347 *	#	US-PATENT-APPL-SN-193947	c 14	N73-13420 *	#
US-PATENT-APPL-SN-15222	c 18	N72-25539 *	#	US-PATENT-APPL-SN-175453	c 85	N82-33288 *	#	US-PATENT-APPL-SN-193980	c 31	N74-13177 *	#
US-PATENT-APPL-SN-152328	c 02	N74-20646 *	#	US-PATENT-APPL-SN-175497	c 08	N73-28045 *	#	US-PATENT-APPL-SN-195061	c 05	N73-25125 *	#
US-PATENT-APPL-SN-152849	c 15	N73-30457 *	#	US-PATENT-APPL-SN-175852	c 25	N73-25760 *	#	US-PATENT-APPL-SN-195223	c 35	N83-21311 *	#
US-PATENT-APPL-SN-153240	c 33	N86-19515 *	#	US-PATENT-APPL-SN-175881	c 09	N73-15235 *	#	US-PATENT-APPL-SN-195226	c 31	N83-31895 *	#
US-PATENT-APPL-SN-153245	c 74	N83-29032 *	#	US-PATENT-APPL-SN-175981	c 16	N73-30476 *	#	US-PATENT-APPL-SN-195227	c 74	N83-32577 *	#
US-PATENT-APPL-SN-153246	c 52	N82-29863 *	#	US-PATENT-APPL-SN-175983	c 31	N73-32750 *	#	US-PATENT-APPL-SN-195228	c 74	N83-10900 *	#
US-PATENT-APPL-SN-153266	c 02	N70-38011 *	#	US-PATENT-APPL-SN-177684	c 28	N70-34860 *	#	US-PATENT-APPL-SN-195346	c 15	N70-36492 *	#
US-PATENT-APPL-SN-153542	c 28	N73-32606 *	#	US-PATENT-APPL-SN-177753	c 07	N72-20154 *	#	US-PATENT-APPL-SN-195347	c 31	N70-34135 *	#
US-PATENT-APPL-SN-153543	c 08	N73-26176 *	#	US-PATENT-APPL-SN-177895	c 35	N74-15831 *	#	US-PATENT-APPL-SN-195547	c 33	N81-15194 *	#
US-PATENT-APPL-SN-153624	c 37	N75-27376 *	#	US-PATENT-APPL-SN-178192	c 25	N83-33977 *	#	US-PATENT-APPL-SN-195547	c 32	N83-18975 *	#
US-PATENT-APPL-SN-154094	c 33	N72-27959 *	#	US-PATENT-APPL-SN-178193	c 52	N82-29862 *	#	US-PATENT-APPL-SN-19572	c 35	N77-27368 *	#
US-PATENT-APPL-SN-154663	c 02	N81-26073 *	#	US-PATENT-APPL-SN-178195	c 35	N82-24470 *	#	US-PATENT-APPL-SN-19585	c 15	N72-25455 *	#
US-PATENT-APPL-SN-154663	c 09	N82-29330 *	#	US-PATENT-APPL-SN-178213	c 25	N70-33267 *	#	US-PATENT-APPL-SN-196399	c 07	N73-25161 *	#
US-PATENT-APPL-SN-154725	c 37	N82-24493 *	#	US-PATENT-APPL-SN-178215	c 25	N70-34661 *	#	US-PATENT-APPL-SN-196877	c 35	N84-17555 *	#
US-PATENT-APPL-SN-154726	c 25	N81-25159 *	#	US-PATENT-APPL-SN-178721	c 03	N70-35408 *	#	US-PATENT-APPL-SN-196898	c 38	N74-15130 *	#
US-PATENT-APPL-SN-154930	c 44	N76-14600 *	#	US-PATENT-APPL-SN-178771	c 23	N75-14834 *	#	US-PATENT-APPL-SN-196931	c 35	N74-17885 *	#
US-PATENT-APPL-SN-154933	c 14	N73-25463 *	#	US-PATENT-APPL-SN-180230	c 33	N83-18996 *	#	US-PATENT-APPL-SN-196970	c 15	N73-33383 *	#
US-PATENT-APPL-SN-154935	c 11	N72-27262 *	#	US-PATENT-APPL-SN-180370	c 28	N70-33375 *	#	US-PATENT-APPL-SN-197183	c 02	N76-22154 *	#
US-PATENT-APPL-SN-155565	c 08	N73-25206 *	#	US-PATENT-APPL-SN-180374	c 28	N70-38181 *	#	US-PATENT-APPL-SN-197548	c 09	N70-34502 *	#
US-PATENT-APPL-SN-155584	c 09	N70-40123 *	#	US-PATENT-APPL-SN-180377	c 15	N70-36908 *	#	US-PATENT-APPL-SN-197551	c 31	N70-34298 *	#
US-PATENT-APPL-SN-155595	c 26	N73-28710 *	#	US-PATENT-APPL-SN-180379	c 21	N70-35395 *	#	US-PATENT-APPL-SN-197553	c 08	N70-34778 *	#
US-PATENT-APPL-SN-155596	c 15	N73-32361 *	#	US-PATENT-APPL-SN-180380	c 09	N70-38998 *	#	US-PATENT-APPL-SN-197554	c 14	N70-35368 *	#
US-PATENT-APPL-SN-155598	c 15	N73-28516 *	#	US-PATENT-APPL-SN-180381	c 21	N70-35089 *	#	US-PATENT-APPL-SN-197689	c 31	N74-14133 *	#
US-PATENT-APPL-SN-156724	c 21	N73-13643 *	#	US-PATENT-APPL-SN-180382	c 28	N70-38645 *	#	US-PATENT-APPL-SN-197689	c 31	N75-13111 *	#
US-PATENT-APPL-SN-156725	c 14	N73-27377 *	#	US-PATENT-APPL-SN-180384	c 11	N70-38675 *	#	US-PATENT-APPL-SN-197870	c 14	N73-32322 *	#
US-PATENT-APPL-SN-156778	c 17	N72-28535 *	#	US-PATENT-APPL-SN-180391	c 28	N70-38249 *	#	US-PATENT-APPL-SN-198093	c 39	N83-20280 *	#
US-PATENT-APPL-SN-156790	c 25	N82-29371 *	#	US-PATENT-APPL-SN-180392	c 09	N71-13530 *	#	US-PATENT-APPL-SN-198285	c 09	N73-13208 *	#
US-PATENT-APPL-SN-157150	c 37	N84-33808 *	#	US-PATENT-APPL-SN-180394	c 15	N70-38603 *	#	US-PATENT-APPL-SN-198289	c 14	N73-32326 *	#
US-PATENT-APPL-SN-158530	c 27	N83-19900 *	#	US-PATENT-APPL-SN-180395	c 15	N70-36947 *	#	US-PATENT-APPL-SN-198355	c 05	N72-15098 *	#
US-PATENT-APPL-SN-158914	c 11	N70-36913 *	#	US-PATENT-APPL-SN-180396	c 11	N70-38202 *	#	US-PATENT-APPL-SN-198362	c 14	N73-28489 *	#
US-PATENT-APPL-SN-158916	c 05	N70-41819 *	#	US-PATENT-APPL-SN-180473	c 28	N73-27699 *	#	US-PATENT-APPL-SN-198379	c 15	N73-32359 *	#
US-PATENT-APPL-SN-158904	c 11	N70-38196 *	#	US-PATENT-APPL-SN-180683	c 10	N73-25241 *	#	US-PATENT-APPL-SN-198472	c 27	N74-12812 *	#
US-PATENT-APPL-SN-158957	c 05	N73-26072 *	#	US-PATENT-APPL-SN-180693	c 14	N73-27378 *	#	US-PATENT-APPL-SN-198763	c 31	N74-18124 *	#
US-PATENT-APPL-SN-159966	c 31	N73-26876 *	#	US-PATENT-APPL-SN-181023	c 15	N73-26472 *	#	US-PATENT-APPL-SN-198763	c 31	N74-32920 *	#
US-PATENT-APPL-SN-160093	c 04	N78-17031 *	#	US-PATENT-APPL-SN-181024	c 07	N73-26117 *	#	US-PATENT-APPL-SN-198885	c 05	N73-27062 *	#
US-PATENT-APPL-SN-160859	c 32	N73-26910 *	#	US-PATENT-APPL-SN-181828	c 02	N70-34858 *	#	US-PATENT-APPL-SN-198919	c 25	N71-29184 *	#
US-PATENT-APPL-SN-160860	c 18	N73-32437 *	#	US-PATENT-APPL-SN-181829	c 31	N70-38010 *	#	US-PATENT-APPL-SN-199202	c 14	N70-40239 *	#
US-PATENT-APPL-SN-161028	c 14	N73-19420 *	#	US-PATENT-APPL-SN-182033	c 33	N73-27796 *	#	US-PATENT-APPL-SN-19971	c 09	N70-33312 *	#
US-PATENT-APPL-SN-161254	c 27	N82-28441 *	#	US-PATENT-APPL-SN-182399	c 07	N73-28013 *	#	US-PATENT-APPL-SN-199765	c 33	N81-12330 *	#
US-PATENT-APPL-SN-161255	c 28	N81-24280 *	#	US-PATENT-APPL-SN-182692	c 15	N70-36535 *	#	US-PATENT-APPL-SN-199766	c 36	N84-28065 *	#
US-PATENT-APPL-SN-161256	c 44	N82-32841 *	#	US-PATENT-APPL-SN-182696	c 21	N70-36938 *	#	US-PATENT-APPL-SN-199767	c 33	N83-16626 *	#
US-PATENT-APPL-SN-161257	c 37	N85-29282 *	#	US-PATENT-APPL-SN-182698	c 15	N70-38620 *	#	US-PATENT-APPL-SN-199768	c 27	N84-22746 *	#
US-PATENT-APPL-SN-162100	c 33	N74-14939 *	#	US-PATENT-APPL-SN-182699	c 28	N70-38504 *	#	US-PATENT-APPL-SN-199768	c 27	N85-20123 *	#
US-PATENT-APPL-SN-162101	c 14	N73-24473 *	#	US-PATENT-APPL-SN-182879	c 37	N82-32730 *	#	US-PATENT-APPL-SN-199769	c 26	N82-31505 *	#
US-PATENT-APPL-SN-162230	c 26	N72-28761 *	#	US-PATENT-APPL-SN-182880	c 37	N83-19091 *	#	US-PATENT-APPL-SN-199957	c 10	N73-26229 *	#
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US-PATENT-APPL-SN-259209	c 01	N83-35992 *	US-PATENT-APPL-SN-276748	c 33	N83-34189 *	US-PATENT-APPL-SN-294727	c 73	N77-18891 *
US-PATENT-APPL-SN-259210	c 32	N83-7085 *	US-PATENT-APPL-SN-276749	c 74	N84-23247 *	US-PATENT-APPL-SN-294738	c 73	N78-28913 *
US-PATENT-APPL-SN-259211	c 44	N84-14583 *	US-PATENT-APPL-SN-277404	c 05	N70-39922 *	US-PATENT-APPL-SN-295855	c 23	N71-17802 *
US-PATENT-APPL-SN-259212	c 35	N84-22931 *	US-PATENT-APPL-SN-277436	c 37	N74-25968 *	US-PATENT-APPL-SN-296137	c 74	N84-28590 *
US-PATENT-APPL-SN-259487	c 33	N70-36847 *	US-PATENT-APPL-SN-277833	c 03	N70-41580 *	US-PATENT-APPL-SN-296622	c 44	N76-31666 *
US-PATENT-APPL-SN-260087	c 21	N71-21688 *	US-PATENT-APPL-SN-277904	c 28	N74-27425 *	US-PATENT-APPL-SN-296879	c 26	N71-18064 *
US-PATENT-APPL-SN-260093	c 25	N74-26948 *	US-PATENT-APPL-SN-277961	c 33	N70-36617 *	US-PATENT-APPL-SN-297127	c 33	N74-27705 *
US-PATENT-APPL-SN-260241	c 74	N74-21304 *	US-PATENT-APPL-SN-278790	c 15	N70-34664 *	US-PATENT-APPL-SN-297128	c 32	N74-26654 *
US-PATENT-APPL-SN-261183	c 09	N74-30597 *	US-PATENT-APPL-SN-2792	c 14	N70-33386 *	US-PATENT-APPL-SN-297436	c 33	N79-11314 *
US-PATENT-APPL-SN-261912	c 14	N70-34818 *	US-PATENT-APPL-SN-279646	c 08	N71-21042 *	US-PATENT-APPL-SN-297486	c 35	N83-24828 *
US-PATENT-APPL-SN-261917	c 09	N70-40272 *	US-PATENT-APPL-SN-280029	c 35	N74-15126 *	US-PATENT-APPL-SN-297488	c 37	N84-16561 *
US-PATENT-APPL-SN-261918	c 28	N70-41447 *	US-PATENT-APPL-SN-280031	c 26	N73-26752 *	US-PATENT-APPL-SN-297524	c 33	N84-14424 *
US-PATENT-APPL-SN-262430	c 35	N74-18323 *	US-PATENT-APPL-SN-280032	c 35	N74-15093 *	US-PATENT-APPL-SN-297524	c 33	N84-22886 *
US-PATENT-APPL-SN-262596	c 14	N71-28958 *	US-PATENT-APPL-SN-280151	c 27	N83-36220 *	US-PATENT-APPL-SN-298156	c 37	N75-13261 *
US-PATENT-APPL-SN-262596	c 62	N76-31946 *	US-PATENT-APPL-SN-280152	c 54	N86-22112 *	US-PATENT-APPL-SN-298156	c 26	N75-19408 *
US-PATENT-APPL-SN-263230	c 33	N74-20860 *	US-PATENT-APPL-SN-280153	c 51	N83-17045 *	US-PATENT-APPL-SN-298157	c 33	N74-21850 *
US-PATENT-APPL-SN-263498	c 34	N74-27859 *	US-PATENT-APPL-SN-280154	c 33	N83-10345 *	US-PATENT-APPL-SN-298799	c 14	N71-15962 *
US-PATENT-APPL-SN-26375	c 02	N70-33286 *	US-PATENT-APPL-SN-280155	c 24	N84-11214 *	US-PATENT-APPL-SN-298800	c 14	N70-34705 *
US-PATENT-APPL-SN-26375	c 02	N70-34858 *	US-PATENT-APPL-SN-280305	c 34	N74-23039 *	US-PATENT-APPL-SN-299042	c 15	N71-15918 *
US-PATENT-APPL-SN-263815	c 09	N74-17955 *	US-PATENT-APPL-SN-280362	c 14	N71-28935 *	US-PATENT-APPL-SN-29917	c 15	N73-13465 *
US-PATENT-APPL-SN-263828	c 34	N83-19015 *	US-PATENT-APPL-SN-280390	c 37	N74-15128 *	US-PATENT-APPL-SN-29917	c 26	N74-10521 *
US-PATENT-APPL-SN-263829	c 05	N84-12154 *	US-PATENT-APPL-SN-280580	c 12	N71-21089 *	US-PATENT-APPL-SN-29917	c 37	N74-31719 *
US-PATENT-APPL-SN-263830	c 44	N83-28573 *	US-PATENT-APPL-SN-280776	c 14	N70-40273 *	US-PATENT-APPL-SN-29979	c 09	N75-15662 *
US-PATENT-APPL-SN-263957	c 52	N83-25346 *	US-PATENT-APPL-SN-280777	c 08	N70-41961 *	US-PATENT-APPL-SN-300113	c 33	N70-33344 *
US-PATENT-APPL-SN-264268	c 31	N78-17238 *	US-PATENT-APPL-SN-281069	c 14	N70-35394 *	US-PATENT-APPL-SN-300712	c 15	N70-35407 *
US-PATENT-APPL-SN-264378	c 24	N83-10117 *	US-PATENT-APPL-SN-28175	c 21	N70-33279 *	US-PATENT-APPL-SN-300957	c 33	N71-29053 *
US-PATENT-APPL-SN-264378	c 70	N84-28565 *	US-PATENT-APPL-SN-281875	c 25	N74-18551 *	US-PATENT-APPL-SN-301039	c 37	N74-27903 *
US-PATENT-APPL-SN-264380	c 44	N83-14692 *	US-PATENT-APPL-SN-281876	c 52	N74-20726 *	US-PATENT-APPL-SN-301075	c 25	N83-29324 *
US-PATENT-APPL-SN-264381	c 52	N84-28388 *	US-PATENT-APPL-SN-281877	c 35	N74-15146 *	US-PATENT-APPL-SN-301077	c 33	N84-14421 *
US-PATENT-APPL-SN-264381	c 52	N84-28389 *	US-PATENT-APPL-SN-281908	c 25	N75-12086 *	US-PATENT-APPL-SN-301078	c 08	N85-19985 *
US-PATENT-APPL-SN-264728	c 30	N70-40016 *	US-PATENT-APPL-SN-282129	c 24	N83-25789 *	US-PATENT-APPL-SN-301417	c 71	N74-21014 *
US-PATENT-APPL-SN-264729	c 33	N70-34540 *	US-PATENT-APPL-SN-282191	c 35	N83-29651 *	US-PATENT-APPL-SN-301418	c 52	N76-29894 *
US-PATENT-APPL-SN-264731	c 09	N70-41655 *	US-PATENT-APPL-SN-282192	c 74	N83-21949 *	US-PATENT-APPL-SN-301419	c 34	N76-17317 *
US-PATENT-APPL-SN-264735	c 28	N70-33265 *	US-PATENT-APPL-SN-282298	c 33	N85-29144 *	US-PATENT-APPL-SN-301683	c 07	N71-15907 *
US-PATENT-APPL-SN-264736	c 28	N70-36802 *	US-PATENT-APPL-SN-28235	c 10	N72-17171 *	US-PATENT-APPL-SN-302681	c 37	N75-12326 *
US-PATENT-APPL-SN-26573	c 31	N72-22874 *	US-PATENT-APPL-SN-282817	c 15	N70-40156 *	US-PATENT-APPL-SN-302749	c 14	N70-40201 *
US-PATENT-APPL-SN-266107	c 11	N71-15925 *	US-PATENT-APPL-SN-282818	c 14	N71-14996 *	US-PATENT-APPL-SN-302913	c 76	N79-16678 *
US-PATENT-APPL-SN-266253	c 04	N84-22546 *	US-PATENT-APPL-SN-283502	c 37	N74-21060 *	US-PATENT-APPL-SN-303670	c 37	N82-11469 *
US-PATENT-APPL-SN-266254	c 24	N83-13172 *	US-PATENT-APPL-SN-284245	c 33	N74-17928 *	US-PATENT-APPL-SN-303671	c 31	N83-31896 *
US-PATENT-APPL-SN-266255	c 44	N83-27344 *	US-PATENT-APPL-SN-284265	c 14	N70-34799 *	US-PATENT-APPL-SN-303672	c 71	N83-32516 *
US-PATENT-APPL-SN-266256	c 24	N83-13171 *	US-PATENT-APPL-SN-284266	c 15	N71-16077 *	US-PATENT-APPL-SN-304430	c 52	N74-27864 *
US-PATENT-APPL-SN-266687	c 32	N84-22820 *	US-PATENT-APPL-SN-284286	c 44	N84-28203 *	US-PATENT-APPL-SN-304698	c 32	N70-41579 *
US-PATENT-APPL-SN-266688	c 37	N83-36483 *	US-PATENT-APPL-SN-284287	c 32	N84-27951 *	US-PATENT-APPL-SN-304705	c 32	N74-20810 *
US-PATENT-APPL-SN-266771	c 37	N74-18127 *	US-PATENT-APPL-SN-284288	c 33	N83-36356 *	US-PATENT-APPL-SN-304749	c 11	N71-16028 *
US-PATENT-APPL-SN-266820	c 07	N74-31270 *	US-PATENT-APPL-SN-284289	c 34	N84-22903 *	US-PATENT-APPL-SN-30498	c 37	N74-21063 *
US-PATENT-APPL-SN-266822	c 32	N74-10132 *	US-PATENT-APPL-SN-284290	c 33	N83-34191 *	US-PATENT-APPL-SN-305012	c 35	N74-15094 *
US-PATENT-APPL-SN-266832	c 33	N74-10195 *	US-PATENT-APPL-SN-284314	c 33	N84-16454 *	US-PATENT-APPL-SN-305013	c 14	N73-13435 *
US-PATENT-APPL-SN-266866	c 33	N73-32818 *	US-PATENT-APPL-SN-285705	c 37	N74-21056 *	US-PATENT-APPL-SN-305020	c 21	N70-34295 *
US-PATENT-APPL-SN-266899	c 60	N74-12888 *	US-PATENT-APPL-SN-286620	c 15	N71-30028 *	US-PATENT-APPL-SN-305638	c 34	N74-23066 *
US-PATENT-APPL-SN-266911	c 36	N74-20009 *	US-PATENT-APPL-SN-286824	c 44	N79-19447 *	US-PATENT-APPL-SN-305639	c 37	N74-27904 *
US-PATENT-APPL-SN-266912	c 32	N74-19788 *	US-PATENT-APPL-SN-287149	c 35	N74-32878 *	US-PATENT-APPL-SN-306652	c 33	N74-32712 *
US-PATENT-APPL-SN-266913	c 31	N74-23065 *	US-PATENT-APPL-SN-287150	c 37	N74-21065 *	US-PATENT-APPL-SN-307269	c 24	N71-10560 *
US-PATENT-APPL-SN-266925	c 54	N74-17853 *	US-PATENT-APPL-SN-288267	c 27	N83-31854 *	US-PATENT-APPL-SN-307270	c 10	N71-16030 *
US-PATENT-APPL-SN-266928	c 26	N74-10521 *	US-PATENT-APPL-SN-288267	c 27	N84-22745 *	US-PATENT-APPL-SN-307271	c 09	N71-22999 *
US-PATENT-APPL-SN-266930	c 54	N74-12779 *	US-PATENT-APPL-SN-288267	c 27	N85-21347 *	US-PATENT-APPL-SN-307714	c 03	N76-32140 *
US-PATENT-APPL-SN-266940	c 32	N74-32598 *	US-PATENT-APPL-SN-288847	c 33	N74-27862 *	US-PATENT-APPL-SN-307727	c 32	N74-20813 *
US-PATENT-APPL-SN-266943	c 72	N74-19310 *	US-PATENT-APPL-SN-288856	c 33	N74-20859 *	US-PATENT-APPL-SN-307728	c 34	N74-27861 *
US-PATENT-APPL-SN-267178	c 74	N84-11920 *	US-PATENT-APPL-SN-288857	c 14	N73-33361 *	US-PATENT-APPL-SN-307729	c 31	N74-27900 *
US-PATENT-APPL-SN-267179	c 35	N84-12445 *	US-PATENT-APPL-SN-289017	c 37	N74-27905 *	US-PATENT-APPL-SN-308007	c 44	N83-34448 *
US-PATENT-APPL-SN-267572	c 73	N74-26767 *	US-PATENT-APPL-SN-289018	c 08	N74-30421 *	US-PATENT-APPL-SN-308009	c 33	N83-36355 *
US-PATENT-APPL-SN-267768	c 70	N74-21300 *	US-PATENT-APPL-SN-289033	c 15	N73-32358 *	US-PATENT-APPL-SN-308020	c 27	N83-28240 *
US-PATENT-APPL-SN-267862	c 33	N74-21851 *	US-PATENT-APPL-SN-289033	c 37	N74-21055 *	US-PATENT-APPL-SN-308021	c 37	N85-21349 *
US-PATENT-APPL-SN-267935	c 71	N83-17235 *	US-PATENT-APPL-SN-289048	c 37	N74-21057 *	US-PATENT-APPL-SN-308203	c 24	N84-12406 *
US-PATENT-APPL-SN-269073	c 52	N74-26625 *	US-PATENT-APPL-SN-289049	c 19	N74-15089 *	US-PATENT-APPL-SN-308204	c 31	N82-11312 *
US-PATENT-APPL-SN-269212	c 07	N71-10775 *	US-PATENT-APPL-SN-289050	c 20	N74-32919 *	US-PATENT-APPL-SN-308204	c 44	N83-28574 *
US-PATENT-APPL-SN-269215	c 14	N70-41332 *	US-PATENT-APPL-SN-290021	c 37	N74-23064 *	US-PATENT-APPL-SN-308918	c 27	N71-15634 *
US-PATENT-APPL-SN-269222	c 15	N70-38225 *	US-PATENT-APPL-SN-290022	c 09	N73-12214 *	US-PATENT-APPL-SN-309291	c 37	N82-20544 *
US-PATENT-APPL-SN-269450	c 36	N76-18427 *	US-PATENT-APPL-SN-290030	c 33	N74-12887 *	US-PATENT-APPL-SN-309292	c 37	N84-28085 *
US-PATENT-APPL-SN-270118	c 33	N71-17610 *	US-PATENT-APPL-SN-290043	c 18	N75-27040 *	US-PATENT-APPL-SN-309293	c 25	N83-13187 *
US-PATENT-APPL-SN-270763	c 36	N84-14509 *	US-PATENT-APPL-SN-290067	c 28	N70-39931 *	US-PATENT-APPL-SN-309354	c 11	N71-15926 *
US-PATENT-APPL-SN-271821	c 15	N71-10778 *	US-PATENT-APPL-SN-290868	c 31	N70-34966 *	US-PATENT-APPL-SN-310034	c 32	N74-30524 *
US-PATENT-APPL-SN-271822	c 15	N71-15967 *	US-PATENT-APPL-SN-290870	c 15	N70-38996 *	US-PATENT-APPL-SN-310193	c 33	N74-27682 *
US-PATENT-APPL-SN-271823	c 27	N71-28929 *	US-PATENT-APPL-SN-290873	c 10	N71-16058 *	US-PATENT-APPL-SN-310506	c 10	N71-16042 *
US-PATENT-APPL-SN-271824	c 07	N71-21476 *	US-PATENT-APPL-SN-290915	c 32	N74-11000 *	US-PATENT-APPL-SN-310507	c 07	N71-11298 *
US-PATENT-APPL-SN-271951	c 35	N74-15092 *	US-PATENT-APPL-SN-291131	c 33	N83-31953 *	US-PATENT-APPL-SN-310615	c 37	N74-27901 *
US-PATENT-APPL-SN-272152	c 27	N83-29388 *	US-PATENT-APPL-SN-291132	c 33	N83-35227 *	US-PATENT-APPL-SN-310616	c 35	N74-21017 *
US-PATENT-APPL-SN-272233	c 44	N81-27615 *	US-PATENT-APPL-SN-291645	c 60	N85-21992 *	US-PATENT-APPL-SN-310624	c 33	N74-17929 *
US-PATENT-APPL-SN-272								

US-PATENT-APPL-SN-311387	c 23	N71-30027 *	US-PATENT-APPL-SN-330210	c 14	N71-21090 *	US-PATENT-APPL-SN-352400	c 26	N71-10607 *	#
US-PATENT-APPL-SN-312269	c 28	N71-14043 *	US-PATENT-APPL-SN-331323	c 07	N71-16088 *	US-PATENT-APPL-SN-352821	c 44	N84-28205 *	#
US-PATENT-APPL-SN-31242	c 28	N70-33374 *	US-PATENT-APPL-SN-331324	c 05	N70-35152 *	US-PATENT-APPL-SN-352827	c 35	N84-28015 *	#
US-PATENT-APPL-SN-312443	c 10	N71-21473 *	US-PATENT-APPL-SN-331359	c 10	N72-11256 *	US-PATENT-APPL-SN-352827	c 35	N85-21598 *	#
US-PATENT-APPL-SN-313132	c 28	N70-34175 *	US-PATENT-APPL-SN-331759	c 07	N76-18117 *	US-PATENT-APPL-SN-352831	c 35	N84-16523 *	#
US-PATENT-APPL-SN-313135	c 15	N70-35087 *	US-PATENT-APPL-SN-331760	c 35	N74-27860 *	US-PATENT-APPL-SN-353162	c 33	N75-26243 *	#
US-PATENT-APPL-SN-313136	c 09	N71-12540 *	US-PATENT-APPL-SN-332123	c 27	N80-32514 *	US-PATENT-APPL-SN-353632	c 15	N71-13789 *	#
US-PATENT-APPL-SN-313381	c 35	N74-15091 *	US-PATENT-APPL-SN-332313	c 21	N71-10678 *	US-PATENT-APPL-SN-353634	c 15	N70-41829 *	#
US-PATENT-APPL-SN-314074	c 15	N71-16079 *	US-PATENT-APPL-SN-332339	c 07	N71-11284 *	US-PATENT-APPL-SN-353637	c 02	N70-34160 *	#
US-PATENT-APPL-SN-314570	c 10	N71-28960 *	US-PATENT-APPL-SN-333535	c 74	N83-36898 *	US-PATENT-APPL-SN-353644	c 07	N71-23098 *	#
US-PATENT-APPL-SN-314572	c 14	N71-15992 *	US-PATENT-APPL-SN-333537	c 44	N83-32176 *	US-PATENT-APPL-SN-353645	c 15	N71-15922 *	#
US-PATENT-APPL-SN-314656	c 51	N77-25769 *	US-PATENT-APPL-SN-333766	c 31	N71-15663 *	US-PATENT-APPL-SN-354060	c 74	N76-19935 *	#
US-PATENT-APPL-SN-314702	c 71	N84-16940 *	US-PATENT-APPL-SN-333770	c 21	N71-15583 *	US-PATENT-APPL-SN-354126	c 37	N82-22496 *	#
US-PATENT-APPL-SN-314928	c 32	N84-34651 *	US-PATENT-APPL-SN-333912	c 32	N74-19790 *	US-PATENT-APPL-SN-354182	c 10	N71-20841 *	#
US-PATENT-APPL-SN-314929	c 71	N83-32515 *	US-PATENT-APPL-SN-333998	c 14	N70-35587 *	US-PATENT-APPL-SN-354406	c 52	N76-14757 *	#
US-PATENT-APPL-SN-315048	c 34	N74-27730 *	US-PATENT-APPL-SN-334349	c 35	N75-19611 *	US-PATENT-APPL-SN-354407	c 33	N74-22865 *	#
US-PATENT-APPL-SN-315069	c 33	N74-20862 *	US-PATENT-APPL-SN-334672	c 14	N70-41330 *	US-PATENT-APPL-SN-354408	c 35	N75-19614 *	#
US-PATENT-APPL-SN-315070	c 60	N76-23850 *	US-PATENT-APPL-SN-334678	c 11	N71-10777 *	US-PATENT-APPL-SN-354611	c 25	N74-26947 *	#
US-PATENT-APPL-SN-315096	c 12	N70-40124 *	US-PATENT-APPL-SN-335036	c 45	N84-12654 *	US-PATENT-APPL-SN-354612	c 35	N75-30504 *	#
US-PATENT-APPL-SN-3151	c 05	N72-27102 *	US-PATENT-APPL-SN-335201	c 33	N74-17927 *	US-PATENT-APPL-SN-355126	c 17	N71-15644 *	#
US-PATENT-APPL-SN-315278	c 51	N83-28849 *	US-PATENT-APPL-SN-335355	c 06	N72-17093 *	US-PATENT-APPL-SN-355129	c 14	N70-41957 *	#
US-PATENT-APPL-SN-315583	c 35	N84-33769 *	US-PATENT-APPL-SN-335441	c 14	N71-23268 *	US-PATENT-APPL-SN-355130	c 15	N70-40354 *	#
US-PATENT-APPL-SN-315584	c 23	N84-16255 *	US-PATENT-APPL-SN-336103	c 16	N71-15550 *	US-PATENT-APPL-SN-356488	c 08	N71-19544 *	#
US-PATENT-APPL-SN-315587	c 25	N83-31743 *	US-PATENT-APPL-SN-336319	c 44	N74-33379 *	US-PATENT-APPL-SN-356554	c 24	N75-33181 *	#
US-PATENT-APPL-SN-315588	c 05	N84-22551 *	US-PATENT-APPL-SN-336320	c 15	N71-15966 *	US-PATENT-APPL-SN-356555	c 37	N75-19685 *	#
US-PATENT-APPL-SN-316477	c 18	N71-10772 *	US-PATENT-APPL-SN-336607	c 10	N71-15910 *	US-PATENT-APPL-SN-356664	c 31	N75-12161 *	#
US-PATENT-APPL-SN-316618	c 07	N74-15453 *	US-PATENT-APPL-SN-336608	c 32	N71-17645 *	US-PATENT-APPL-SN-356692	c 15	N70-41371 *	#
US-PATENT-APPL-SN-31702	c 16	N73-16536 *	US-PATENT-APPL-SN-337487	c 33	N74-26977 *	US-PATENT-APPL-SN-357126	c 35	N74-34857 *	#
US-PATENT-APPL-SN-31703	c 09	N72-21244 *	US-PATENT-APPL-SN-337816	c 35	N75-15931 *	US-PATENT-APPL-SN-357312	c 27	N76-16229 *	#
US-PATENT-APPL-SN-317310	c 36	N77-25502 *	US-PATENT-APPL-SN-338386	c 15	N84-16231 *	US-PATENT-APPL-SN-357334	c 03	N71-12258 *	#
US-PATENT-APPL-SN-317389	c 18	N70-41583 *	US-PATENT-APPL-SN-338484	c 32	N74-20811 *	US-PATENT-APPL-SN-357336	c 03	N71-12259 *	#
US-PATENT-APPL-SN-317391	c 15	N71-15968 *	US-PATENT-APPL-SN-339040	c 31	N70-41373 *	US-PATENT-APPL-SN-357337	c 15	N71-10782 *	#
US-PATENT-APPL-SN-317567	c 36	N75-15029 *	US-PATENT-APPL-SN-339806	c 07	N74-27490 *	US-PATENT-APPL-SN-357340	c 23	N71-15673 *	#
US-PATENT-APPL-SN-317658	c 36	N84-16542 *	US-PATENT-APPL-SN-339821	c 17	N70-33288 *	US-PATENT-APPL-SN-358088	c 35	N84-33767 *	#
US-PATENT-APPL-SN-317977	c 25	N83-36118 *	US-PATENT-APPL-SN-339825	c 28	N71-15660 *	US-PATENT-APPL-SN-358089	c 71	N84-23233 *	#
US-PATENT-APPL-SN-318151	c 75	N74-30156 *	US-PATENT-APPL-SN-340113	c 16	N70-41578 *	US-PATENT-APPL-SN-358127	c 05	N71-12335 *	#
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US-PATENT-APPL-SN-375674	c 28	N70-41582 *	#	US-PATENT-APPL-SN-392973	c 07	N71-23001 *	#	US-PATENT-APPL-SN-408435	c 15	N71-28937 *	#
US-PATENT-APPL-SN-375680	c 10	N71-28739 *	#	US-PATENT-APPL-SN-392992	c 15	N71-23052 *	#	US-PATENT-APPL-SN-408438	c 07	N71-22750 *	#
US-PATENT-APPL-SN-375682	c 31	N70-41588 *	#	US-PATENT-APPL-SN-39342	c 09	N72-25252 *	#	US-PATENT-APPL-SN-408442	c 10	N71-23662 *	#
US-PATENT-APPL-SN-375684	c 44	N85-21769 *	#	US-PATENT-APPL-SN-39343	c 34	N74-18552 *	#	US-PATENT-APPL-SN-408575	c 35	N83-32026 *	#
US-PATENT-APPL-SN-375784	c 26	N82-26431 *	#	US-PATENT-APPL-SN-39344	c 14	N72-25409 *	#	US-PATENT-APPL-SN-409126	c 18	N71-21068 *	#
US-PATENT-APPL-SN-375784	c 24	N85-21266 *	#	US-PATENT-APPL-SN-393451	c 02	N70-42016 *	#	US-PATENT-APPL-SN-409678	c 09	N84-27749 *	#
US-PATENT-APPL-SN-375784	c 24	N85-35233 *	#	US-PATENT-APPL-SN-393456	c 33	N83-16633 *	#	US-PATENT-APPL-SN-409679	c 33	N82-33634 *	#
US-PATENT-APPL-SN-376306	c 25	N84-12262 *	#	US-PATENT-APPL-SN-393461	c 31	N71-17691 *	#	US-PATENT-APPL-SN-409679	c 33	N84-22884 *	#
US-PATENT-APPL-SN-377146	c 14	N71-23041 *	#	US-PATENT-APPL-SN-393464	c 23	N71-21821 *	#	US-PATENT-APPL-SN-409680	c 35	N85-20294 *	#
US-PATENT-APPL-SN-377777	c 32	N70-42003 *	#	US-PATENT-APPL-SN-393523	c 12	N75-24774 *	#	US-PATENT-APPL-SN-409990	c 35	N75-27330 *	#
US-PATENT-APPL-SN-377780	c 11	N71-10604 *	#	US-PATENT-APPL-SN-393524	c 60	N76-21914 *	#	US-PATENT-APPL-SN-409991	c 33	N75-13139 *	#
US-PATENT-APPL-SN-377784	c 28	N70-41311 *	#	US-PATENT-APPL-SN-393525	c 31	N74-32917 *	#	US-PATENT-APPL-SN-410325	c 18	N71-23088 *	#
US-PATENT-APPL-SN-377891	c 52	N84-34913 *	#	US-PATENT-APPL-SN-393526	c 77	N75-20139 *	#	US-PATENT-APPL-SN-410326	c 09	N71-21449 *	#
US-PATENT-APPL-SN-377892	c 33	N83-24763 *	#	US-PATENT-APPL-SN-393527	c 15	N75-13007 *	#	US-PATENT-APPL-SN-410330	c 26	N71-23043 *	#
US-PATENT-APPL-SN-378080	c 12	N71-24692 *	#	US-PATENT-APPL-SN-393528	c 36	N75-19654 *	#	US-PATENT-APPL-SN-410331	c 02	N70-41589 *	#
US-PATENT-APPL-SN-378126	c 44	N76-18643 *	#	US-PATENT-APPL-SN-393581	c 54	N84-23113 *	#	US-PATENT-APPL-SN-410332	c 14	N71-23039 *	#
US-PATENT-APPL-SN-378127	c 44	N76-18641 *	#	US-PATENT-APPL-SN-393582	c 37	N85-21649 *	#	US-PATENT-APPL-SN-411572	c 35	N75-15932 *	#
US-PATENT-APPL-SN-378533	c 37	N84-11497 *	#	US-PATENT-APPL-SN-393583	c 27	N83-29392 *	#	US-PATENT-APPL-SN-411767	c 74	N83-30222 *	#
US-PATENT-APPL-SN-378535	c 74	N84-23248 *	#	US-PATENT-APPL-SN-393584	c 37	N85-30334 *	#	US-PATENT-APPL-SN-411944	c 15	N70-41629 *	#
US-PATENT-APPL-SN-379019	c 09	N75-12969 *	#	US-PATENT-APPL-SN-393585	c 37	N82-31690 *	#	US-PATENT-APPL-SN-411945	c 18	N71-23047 *	#
US-PATENT-APPL-SN-379049	c 31	N75-13111 *	#	US-PATENT-APPL-SN-393586	c 54	N84-28484 *	#	US-PATENT-APPL-SN-411949	c 27	N71-15635 *	#
US-PATENT-APPL-SN-379072	c 15	N71-16078 *	#	US-PATENT-APPL-SN-393588	c 25	N84-16276 *	#	US-PATENT-APPL-SN-412039	c 06	N84-34443 *	#
US-PATENT-APPL-SN-379417	c 02	N70-41863 *	#	US-PATENT-APPL-SN-394149	c 35	N75-25123 *	#	US-PATENT-APPL-SN-412079	c 37	N75-13266 *	#
US-PATENT-APPL-SN-379601	c 71	N85-30765 *	#	US-PATENT-APPL-SN-394206	c 76	N75-25730 *	#	US-PATENT-APPL-SN-412080	c 36	N75-19653 *	#
US-PATENT-APPL-SN-379602	c 44	N84-23018 *	#	US-PATENT-APPL-SN-394207	c 25	N78-27226 *	#	US-PATENT-APPL-SN-412379	c 32	N77-10392 *	#
US-PATENT-APPL-SN-379768	c 28	N71-10780 *	#	US-PATENT-APPL-SN-394280	c 54	N82-29002 *	#	US-PATENT-APPL-SN-413101	c 07	N86-20389 *	#
US-PATENT-APPL-SN-379771	c 33	N71-28852 *	#	US-PATENT-APPL-SN-394638	c 28	N70-34162 *	#	US-PATENT-APPL-SN-41345	c 09	N72-29172 *	#
US-PATENT-APPL-SN-380046	c 25	N76-29379 *	#	US-PATENT-APPL-SN-394898	c 07	N77-28118 *	#	US-PATENT-APPL-SN-41346	c 15	N72-24522 *	#
US-PATENT-APPL-SN-380630	c 37	N75-21631 *	#	US-PATENT-APPL-SN-395348	c 15	N71-22713 *	#	US-PATENT-APPL-SN-41347	c 09	N72-25256 *	#
US-PATENT-APPL-SN-380960	c 15	N70-41993 *	#	US-PATENT-APPL-SN-395493	c 37	N79-13664 *	#	US-PATENT-APPL-SN-41348	c 09	N72-23173 *	#
US-PATENT-APPL-SN-380965	c 10	N71-23033 *	#	US-PATENT-APPL-SN-395495	c 54	N75-27759 *	#	US-PATENT-APPL-SN-413661	c 15	N71-23024 *	#
US-PATENT-APPL-SN-381940	c 09	N71-20705 *	#	US-PATENT-APPL-SN-395687	c 37	N75-18573 *	#	US-PATENT-APPL-SN-413662	c 09	N70-41929 *	#
US-PATENT-APPL-SN-382261	c 35	N76-14430 *	#	US-PATENT-APPL-SN-395688	c 33	N75-19516 *	#	US-PATENT-APPL-SN-414042	c 35	N79-17192 *	#
US-PATENT-APPL-SN-382262	c 37	N74-21058 *	#	US-PATENT-APPL-SN-395895	c 36	N78-17366 *	#	US-PATENT-APPL-SN-414043	c 27	N76-32315 *	#
US-PATENT-APPL-SN-38262	c 28	N70-35422 *	#	US-PATENT-APPL-SN-396443	c 15	N71-15986 *	#	US-PATENT-APPL-SN-41404	c 03	N73-20039 *	#
US-PATENT-APPL-SN-382976	c 15	N71-21179 *	#	US-PATENT-APPL-SN-396444	c 10	N71-20782 *	#	US-PATENT-APPL-SN-414106	c		

US-PATENT-APPL-SN-416135	c 32	N75-15854 *	#	US-PATENT-APPL-SN-433196	c 44	N84-23019 *	#	US-PATENT-APPL-SN-452944	c 18	N71-24183 *	#
US-PATENT-APPL-SN-416938	c 11	N71-10746 *	#	US-PATENT-APPL-SN-43327	c 15	N72-26371 *	#	US-PATENT-APPL-SN-452945	c 18	N69-39979 *	#
US-PATENT-APPL-SN-416940	c 21	N71-21708 *	#	US-PATENT-APPL-SN-433598	c 27	N84-22347 *	#	US-PATENT-APPL-SN-453115	c 32	N76-14321 *	#
US-PATENT-APPL-SN-416941	c 31	N70-34159 *	#	US-PATENT-APPL-SN-433821	c 09	N71-16089 *	#	US-PATENT-APPL-SN-453225	c 15	N71-24833 *	#
US-PATENT-APPL-SN-416943	c 14	N71-23269 *	#	US-PATENT-APPL-SN-433968	c 33	N75-25041 *	#	US-PATENT-APPL-SN-453227	c 31	N71-10582 *	#
US-PATENT-APPL-SN-416945	c 10	N71-23543 *	#	US-PATENT-APPL-SN-434084	c 33	N84-27974 *	#	US-PATENT-APPL-SN-453229	c 17	N71-23828 *	#
US-PATENT-APPL-SN-416946	c 28	N71-15563 *	#	US-PATENT-APPL-SN-434085	c 33	N85-29145 *	#	US-PATENT-APPL-SN-453231	c 23	N71-15467 *	#
US-PATENT-APPL-SN-417253	c 11	N71-23042 *	#	US-PATENT-APPL-SN-434087	c 27	N86-19457 *	#	US-PATENT-APPL-SN-453232	c 15	N71-21311 *	#
US-PATENT-APPL-SN-418137	c 16	N84-22601 *	#	US-PATENT-APPL-SN-434143	c 15	N71-15871 *	#	US-PATENT-APPL-SN-453233	c 18	N75-19329 *	#
US-PATENT-APPL-SN-418138	c 16	N84-27784 *	#	US-PATENT-APPL-SN-434148	c 31	N71-24750 *	#	US-PATENT-APPL-SN-453241	c 33	N75-29318 *	#
US-PATENT-APPL-SN-418139	c 24	N84-27829 *	#	US-PATENT-APPL-SN-434672	c 34	N84-14461 *	#	US-PATENT-APPL-SN-455163	c 32	N75-26195 *	#
US-PATENT-APPL-SN-418362	c 14	N71-20741 *	#	US-PATENT-APPL-SN-434674	c 34	N83-35307 *	#	US-PATENT-APPL-SN-455165	c 36	N75-30524 *	#
US-PATENT-APPL-SN-418931	c 05	N70-42000 *	#	US-PATENT-APPL-SN-435387	c 10	N70-42032 *	#	US-PATENT-APPL-SN-45519	c 14	N72-25410 *	#
US-PATENT-APPL-SN-418933	c 15	N71-23022 *	#	US-PATENT-APPL-SN-435433	c 14	N71-30026 *	#	US-PATENT-APPL-SN-455352	c 33	N71-20834 *	#
US-PATENT-APPL-SN-419319	c 34	N76-17317 *	#	US-PATENT-APPL-SN-435511	c 27	N84-27886 *	#	US-PATENT-APPL-SN-455477	c 08	N71-19687 *	#
US-PATENT-APPL-SN-419747	c 17	N76-21250 *	#	US-PATENT-APPL-SN-435756	c 12	N71-16894 *	#	US-PATENT-APPL-SN-45549	c 27	N76-16228 *	#
US-PATENT-APPL-SN-419748	c 27	N76-14264 *	#	US-PATENT-APPL-SN-436313	c 54	N77-32721 *	#	US-PATENT-APPL-SN-4556460	c 26	N84-27855 *	#
US-PATENT-APPL-SN-419831	c 35	N75-21582 *	#	US-PATENT-APPL-SN-436315	c 26	N75-19408 *	#	US-PATENT-APPL-SN-455678	c 07	N70-41678 *	#
US-PATENT-APPL-SN-419831	c 35	N77-17426 *	#	US-PATENT-APPL-SN-436316	c 20	N76-14191 *	#	US-PATENT-APPL-SN-455681	c 09	N71-23021 *	#
US-PATENT-APPL-SN-42022	c 15	N70-35409 *	#	US-PATENT-APPL-SN-436317	c 37	N76-24575 *	#	US-PATENT-APPL-SN-455684	c 06	N71-23499 *	#
US-PATENT-APPL-SN-420245	c 08	N71-22749 *	#	US-PATENT-APPL-SN-437556	c 27	N76-16230 *	#	US-PATENT-APPL-SN-4556915	c 02	N83-19715 *	#
US-PATENT-APPL-SN-420250	c 15	N71-23051 *	#	US-PATENT-APPL-SN-437611	c 09	N71-22796 *	#	US-PATENT-APPL-SN-457295	c 20	N75-24837 *	#
US-PATENT-APPL-SN-420424	c 34	N75-26282 *	#	US-PATENT-APPL-SN-437912	c 33	N85-29142 *	#	US-PATENT-APPL-SN-457874	c 09	N71-23545 *	#
US-PATENT-APPL-SN-420466	c 14	N71-23092 *	#	US-PATENT-APPL-SN-437913	c 33	N83-12334 *	#	US-PATENT-APPL-SN-457875	c 31	N70-42015 *	#
US-PATENT-APPL-SN-420813	c 36	N75-32441 *	#	US-PATENT-APPL-SN-437917	c 60	N85-33701 *	#	US-PATENT-APPL-SN-457876	c 02	N71-12243 *	#
US-PATENT-APPL-SN-42088	c 34	N78-17336 *	#	US-PATENT-APPL-SN-438135	c 09	N71-23027 *	#	US-PATENT-APPL-SN-457879	c 15	N71-21078 *	#
US-PATENT-APPL-SN-421702	c 44	N75-32581 *	#	US-PATENT-APPL-SN-438147	c 75	N76-14931 *	#	US-PATENT-APPL-SN-457990	c 85	N85-34722 *	#
US-PATENT-APPL-SN-421702	c 44	N76-23675 *	#	US-PATENT-APPL-SN-438446	c 74	N86-20126 *	#	US-PATENT-APPL-SN-457992	c 35	N85-29212 *	#
US-PATENT-APPL-SN-422092	c 14	N71-22989 *	#	US-PATENT-APPL-SN-438797	c 14	N71-10500 *	#	US-PATENT-APPL-SN-458484	c 44	N76-14595 *	#
US-PATENT-APPL-SN-422095	c 07	N71-10676 *	#	US-PATENT-APPL-SN-43883	c 18	N73-30532 *	#	US-PATENT-APPL-SN-459138	c 14	N71-10773 *	#
US-PATENT-APPL-SN-422096	c 03	N71-29044 *	#	US-PATENT-APPL-SN-43884	c 15	N72-25457 *	#	US-PATENT-APPL-SN-459407	c 14	N73-30391 *	#
US-PATENT-APPL-SN-422097	c 11	N71-21481 *	#	US-PATENT-APPL-SN-439489	c 09	N70-41717 *	#	US-PATENT-APPL-SN-459736	c 33	N75-26245 *	#
US-PATENT-APPL-SN-422098	c 15	N71-22797 *	#	US-PATENT-APPL-SN-439490	c 23	N69-24332 *	#	US-PATENT-APPL-SN-459842	c 35	N85-30281 *	#
US-PATENT-APPL-SN-422099	c 14	N71-22964 *	#	US-PATENT-APPL-SN-440033	c 27	N70-41897 *	#	US-PATENT-APPL-SN-460509	c 37	N84-33807 *	#
US-PATENT-APPL-SN-422864	c 05	N69-21925 *	#	US-PATENT-APPL-SN-440036	c 09	N71-23097 *	#	US-PATENT-APPL-SN-460511	c 33	N83-21238 *	#
US-PATENT-APPL-SN-422865	c 31	N70-41631 *	#	US-PATENT-APPL-SN-440039	c 09	N71-22888 *	#	US-PATENT-APPL-SN-460733	c 37	N83-20154 *	#
US-PATENT-APPL-SN-422867	c 15	N70-40062 *	#	US-PATENT-APPL-SN-440656	c 27	N85-21348 *	#	US-PATENT-APPL-SN-460876	c 09	N69-21470 *	#
US-PATENT-APPL-SN-422868	c 15	N71-10617 *	#	US-PATENT-APPL-SN-440916	c 33	N75-27252 *	#	US-PATENT-APPL-SN-460877	c 33	N71-23085 *	#
US-PATENT-APPL-SN-422869	c 14	N71-10779 *	#	US-PATENT-APPL-SN-440917	c 37	N76-18459 *	#	US-PATENT-APPL-SN-461073	c 33	N75-26246 *	#
US-PATENT-APPL-SN-423016	c 36	N85-21631 *	#	US-PATENT-APPL-SN-441279	c 35	N75-29382 *	#	US-PATENT-APPL-SN-461477	c 37	N75-19686 *	#
US-PATENT-APPL-SN-423412	c 08	N71-22897 *	#	US-PATENT-APPL-SN-441897	c 35	N84-33768 *	#	US-PATENT-APPL-SN-461714	c 37	N83-20152 *	#
US-PATENT-APPL-SN-424013	c 34	N76-27517 *	#	US-PATENT-APPL-SN-441899	c 27	N84-14322 *	#	US-PATENT-APPL-SN-461724	c 31	N85-21404 *	#
US-PATENT-APPL-SN-424038	c 24	N75-30260 *	#	US-PATENT-APPL-SN-441936	c 14	N69-39975 *	#	US-PATENT-APPL-SN-461765	c 17	N71-23046 *	#
US-PATENT-APPL-SN-424153	c 15	N71-21234 *	#	US-PATENT-APPL-SN-442558	c 15	N71-10799 *	#	US-PATENT-APPL-SN-461788	c 27	N85-21349 *	#
US-PATENT-APPL-SN-424156	c 02	N71-23007 *	#	US-PATENT-APPL-SN-442835	c 26	N71-29156 *	#	US-PATENT-APPL-SN-462341	c 44	N76-31666 *	#
US-PATENT-APPL-SN-424157	c 28	N70-41275 *	#	US-PATENT-APPL-SN-444087	c 02	N71-11041 *	#	US-PATENT-APPL-SN-462424	c 24	N77-19171 *	#
US-PATENT-APPL-SN-425096	c 05	N71-23080 *	#	US-PATENT-APPL-SN-444124	c 52	N84-23095 *	#	US-PATENT-APPL-SN-462497	c 25	N85-21279 *	#
US-PATENT-APPL-SN-425201	c 04	N86-19304 *	#	US-PATENT-APPL-SN-444125	c 20	N83-17588 *	#	US-PATENT-APPL-SN-462508	c 35	N83-20085 *	#
US-PATENT-APPL-SN-425202	c 74	N85-34629 *	#	US-PATENT-APPL-SN-444149	c 47	N84-28292 *	#	US-PATENT-APPL-SN-462508	c 35	N86-19580 *	#
US-PATENT-APPL-SN-425203	c 35	N84-22930 *	#	US-PATENT-APPL-SN-444150	c 35	N84-22933 *	#	US-PATENT-APPL-SN-462705	c 37	N75-19684 *	#
US-PATENT-APPL-SN-425204	c 32	N85-29117 *	#	US-PATENT-APPL-SN-445178	c 37	N76-15461 *	#	US-PATENT-APPL-SN-462762	c 12	N69-21466 *	#
US-PATENT-APPL-SN-425205	c 35	N85-21595 *	#	US-PATENT-APPL-SN-445292	c 11	N71-23030 *	#	US-PATENT-APPL-SN-462763	c 14	N71-22991 *	#
US-PATENT-APPL-SN-425362	c 15	N71-10658 *	#	US-PATENT-APPL-SN-445398	c 74	N78-15880 *	#	US-PATENT-APPL-SN-462844	c 33	N75-19520 *	#
US-PATENT-APPL-SN-425363	c 09	N71-20658 *	#	US-PATENT-APPL-SN-445807	c 14	N71-22996 *	#	US-PATENT-APPL-SN-462903	c 37	N76-14461 *	#
US-PATENT-APPL-SN-425364	c 33	N71-15623 *	#	US-PATENT-APPL-SN-446071	c 25	N82-29370 *	#	US-PATENT-APPL-SN-463456	c 37	N85-30333 *	#
US-PATENT-APPL-SN-425365	c 32	N71-21045 *	#	US-PATENT-APPL-SN-446131	c 14	N71-22992 *	#	US-PATENT-APPL-SN-463925	c 74	N76-30053 *	#
US-PATENT-APPL-SN-425972	c 03	N71-23006 *	#	US-PATENT-APPL-SN-446560	c 12	N76-15189 *	#	US-PATENT-APPL-SN-464720	c 32	N76-16249 *	#
US-PATENT-APPL-SN-426155	c 33	N75-15874 *	#	US-PATENT-APPL-SN-446562	c 36	N76-14447 *	#	US-PATENT-APPL-SN-464721	c 37	N75-26372 *	#
US-PATENT-APPL-SN-426405	c 25	N75-26043 *	#	US-PATENT-APPL-SN-446564	c 35	N75-26334 *	#	US-PATENT-APPL-SN-464722	c 35	N76-22509 *	#
US-PATENT-APPL-SN-426455	c 28	N71-15661 *	#	US-PATENT-APPL-SN-446567	c 34	N76-27515 *	#	US-PATENT-APPL-SN-464723	c 33	N75-30429 *	#
US-PATENT-APPL-SN-426702	c 15	N70-42034 *	#	US-PATENT-APPL-SN-446568	c 37	N76-23570 *	#	US-PATENT-APPL-SN-464878	c 10	N71-22986 *	#
US-PATENT-APPL-SN-427395	c 54	N75-27760 *	#	US-PATENT-APPL-SN-446569	c 77	N75-20140 *	#	US-PATENT-APPL-SN-464879	c 14	N71-21072 *	#
US-PATENT-APPL-SN-427775	c 27	N76-22376 *	#	US-PATENT-APPL-SN-447124	c 35	N75-30503 *	#	US-PATENT-APPL-SN-464880	c 33	N71-21586 *	#
US-PATENT-APPL-SN-427990	c 06	N71-23527 *	#	US-PATENT-APPL-SN-447371	c 27	N84-22746 *	#	US-PATENT-APPL-SN-464885	c 15	N71-22997 *	#
US-PATENT-APPL-SN-428444	c 44	N76-18642 *	#	US-PATENT-APPL-SN-447927	c 11	N71-10776 *	#	US-PATENT-APPL-SN-465363	c 52	N84-28389 *	#
US-PATENT-APPL-SN-428444	c 44	N76-29704 *	#	US-PATENT-APPL-SN-447928	c 15	N71-10577 *	#	US-PATENT-APPL-SN-465364	c 44	N85-20530 *	#
US-PATENT-APPL-SN-428882	c 31	N70-41948 *	#	US-PATENT-APPL-SN-447930	c 14	N69-39896 *	#	US-PATENT-APPL-SN-465365	c 43	N86-19711 *	#
US-PATENT-APPL-SN-428887	c 33	N71-29051 *	#	US-PATENT-APPL-SN-447933	c 03	N69-21337 *	#	US-PATENT-APPL-SN-465366	c 27	N85-20126 *	#
US-PATENT-APPL-SN-428890	c 02	N70-41630 *	#	US-PATENT-APPL-SN-448320	c 91	N76-30131 *	#	US-PATENT-APPL-SN-465367	c 27	N84-22748 *	#
US-PATENT-APPL-SN-428892	c 34	N77-18382 *	#	US-PATENT-APPL-SN-448321	c 27	N78-32261 *	#	US-PATENT-APPL-SN-465369	c 76	N83-21993 *	#
US-PATENT-APPL-SN-428893	c 45	N75-27585 *	#	US-PATENT-APPL-SN-448323	c 18	N76-17185 *	#	US-PATENT-APPL-SN-465370	c 52	N83-29991 *	#
US-PATENT-APPL-SN-428894	c 32	N75-21486 *	#	US-PATENT-APPL-SN-448325	c 33	N75-26244 *	#	US-PATENT-APPL-SN-466390	c 28	N71-20330 *	#
US-PATENT-APPL-SN-428894	c 32	N76-16249 *	#	US-PATENT-APPL-SN-448365	c 10	N71-26414 *	#	US-PATENT-APPL-SN-466868	c 22	N71-23599 *	#
US-PATENT-APPL-SN-428895	c 51	N75-25503 *	#	US-PATENT-APPL-SN-448881	c 32	N85-29118 *	#	US-PATENT-APPL-SN-466873	c 17	N71-20743 *	#
US-PATENT-APPL-SN-429437	c 35	N75-23910 *	#	US-PATENT-APPL-SN-448898	c 15	N70-41310 *	#	US-PATENT-APPL-SN-466875	c 08	N71-22707 *	#
US-PATENT-APPL-SN-429932	c 05	N71-20268 *	#	US-PATENT-APPL-SN-449118	c 33	N75-19524 *	#	US-PATENT-APPL-SN-467820	c 28	N71-26779 *	#
US-PATENT-APPL-SN-430192	c 18	N71-27170 *	#	US-PATENT-APPL-SN-449153	c 54	N75-27761 *	#	US-PATENT-APPL-SN-468614	c 60	N77-14751 *	#
US-PATENT-APPL-SN-430226	c 18	N71-23658 *	#	US-PATENT-APPL-SN-449901	c 18	N70-41967 *	#	US-PATENT-APPL-SN-468614	c 60	N77-32731 *	#
US-PATENT-APPL-SN-430496	c 26	N75-29236 *	#	US-PATENT-APPL-SN-449902	c 24	N70-41681 *	#	US-PATENT-APPL-SN-468614	c 60	N78-10709 *	#
US-PATENT-APPL-SN-430748	c 76	N79-21910 *	#	US-PATENT-APPL-SN-450166	c 33	N84-27975 *	#	US-PATENT-APPL-SN-468647	c 21	N71-10771 *	#
US-PATENT-APPL-SN-430776	c 03	N70-41954 *	#	US-PATENT-APPL-SN-450319	c 33	N84-33661 *	#	US-PATENT-APPL-SN-468655	c 15	N69-21471 *	#
US-PATENT-APPL-SN-430777	c 18	N71-24184 *	#	US-PATENT-APPL-SN-450500	c 37	N76-18455 *	#	US-PATENT-APPL-SN-469011	c 11	N69-21540 *	#
US-PATENT-APPL-SN-430778	c 03	N71-10728 *	#	US-PATENT-APPL-SN-450502	c 37	N76-18456 *	#	US-PATENT-APPL-SN-469012	c 25	N71-20747 *	#
US-PATENT-APPL-SN-430780	c 03	N71-12260 *	#	US-PATENT-APPL-SN-450504	c 23						

US-PATENT-APPL-SN-470902	c 06	N71-28808 *	US-PATENT-APPL-SN-488381	c 14	N73-32321 *	US-PATENT-APPL-SN-507625	c 76	N86-20150 *
US-PATENT-APPL-SN-471154	c 09	N73-28084 *	US-PATENT-APPL-SN-488616	c 07	N76-18117 *	US-PATENT-APPL-SN-507626	c 34	N85-29179 *
US-PATENT-APPL-SN-47120	c 31	N70-33242 *	US-PATENT-APPL-SN-488745	c 26	N75-27127 *	US-PATENT-APPL-SN-508169	c 18	N71-27397 *
US-PATENT-APPL-SN-47121	c 09	N70-39915 *	US-PATENT-APPL-SN-489008	c 23	N75-30256 *	US-PATENT-APPL-SN-508170	c 08	N71-22710 *
US-PATENT-APPL-SN-47122	c 14	N70-34813 *	US-PATENT-APPL-SN-489009	c 33	N76-19339 *	US-PATENT-APPL-SN-508371	c 05	N85-21147 *
US-PATENT-APPL-SN-47123	c 15	N70-34817 *	US-PATENT-APPL-SN-489442	c 25	N69-39884 *	US-PATENT-APPL-SN-508372	c 43	N83-29783 *
US-PATENT-APPL-SN-472066	c 31	N70-42075 *	US-PATENT-APPL-SN-489675	c 05	N85-29947 *	US-PATENT-APPL-SN-508601	c 15	N71-22878 *
US-PATENT-APPL-SN-472372	c 07	N71-20791 *	US-PATENT-APPL-SN-491054	c 14	N71-23174 *	US-PATENT-APPL-SN-508784	c 76	N76-25049 *
US-PATENT-APPL-SN-472643	c 33	N79-21265 *	US-PATENT-APPL-SN-491058	c 09	N71-23443 *	US-PATENT-APPL-SN-508873	c 14	N71-23240 *
US-PATENT-APPL-SN-472747	c 31	N71-16081 *	US-PATENT-APPL-SN-491059	c 09	N71-23015 *	US-PATENT-APPL-SN-509460	c 01	N71-13411 *
US-PATENT-APPL-SN-472775	c 35	N75-33369 *	US-PATENT-APPL-SN-491113	c 35	N86-19581 *	US-PATENT-APPL-SN-510136	c 18	N84-33450 *
US-PATENT-APPL-SN-473498	c 20	N85-21256 *	US-PATENT-APPL-SN-491125	c 27	N84-22750 *	US-PATENT-APPL-SN-510137	c 37	N85-34401 *
US-PATENT-APPL-SN-473499	c 74	N86-21348 *	US-PATENT-APPL-SN-491416	c 35	N75-33368 *	US-PATENT-APPL-SN-510150	c 10	N71-26103 *
US-PATENT-APPL-SN-473535	c 31	N71-15637 *	US-PATENT-APPL-SN-491417	c 37	N76-19437 *	US-PATENT-APPL-SN-510155	c 06	N71-11235 *
US-PATENT-APPL-SN-473537	c 08	N71-15908 *	US-PATENT-APPL-SN-491418	c 31	N76-13365 *	US-PATENT-APPL-SN-510474	c 15	N71-23810 *
US-PATENT-APPL-SN-473827	c 35	N83-21316 *	US-PATENT-APPL-SN-491419	c 32	N76-19339 *	US-PATENT-APPL-SN-510475	c 14	N71-23087 *
US-PATENT-APPL-SN-473973	c 02	N77-10001 *	US-PATENT-APPL-SN-491845	c 28	N71-15659 *	US-PATENT-APPL-SN-510677	c 44	N77-19571 *
US-PATENT-APPL-SN-47440	c 07	N73-20174 *	US-PATENT-APPL-SN-492282	c 27	N85-20124 *	US-PATENT-APPL-SN-511299	c 15	N71-22798 *
US-PATENT-APPL-SN-47441	c 09	N70-34559 *	US-PATENT-APPL-SN-492344	c 05	N71-22896 *	US-PATENT-APPL-SN-511334	c 36	N77-32478 *
US-PATENT-APPL-SN-47443	c 09	N72-17152 *	US-PATENT-APPL-SN-492964	c 25	N85-21280 *	US-PATENT-APPL-SN-511346	c 15	N77-10113 *
US-PATENT-APPL-SN-474531	c 31	N71-23009 *	US-PATENT-APPL-SN-493179	c 23	N85-35227 *	US-PATENT-APPL-SN-511362	c 33	N85-29147 *
US-PATENT-APPL-SN-474744	c 35	N76-14431 *	US-PATENT-APPL-SN-493359	c 20	N76-21275 *	US-PATENT-APPL-SN-5114	c 06	N72-25150 *
US-PATENT-APPL-SN-474745	c 37	N76-14463 *	US-PATENT-APPL-SN-493363	c 33	N76-21390 *	US-PATENT-APPL-SN-511564	c 09	N69-39885 *
US-PATENT-APPL-SN-474815	c 33	N79-21264 *	US-PATENT-APPL-SN-493864	c 23	N83-28076 *	US-PATENT-APPL-SN-511567	c 05	N71-12336 *
US-PATENT-APPL-SN-475299	c 31	N71-17679 *	US-PATENT-APPL-SN-493865	c 24	N86-19380 *	US-PATENT-APPL-SN-511887	c 35	N76-15436 *
US-PATENT-APPL-SN-475336	c 54	N75-27758 *	US-PATENT-APPL-SN-493866	c 71	N84-28568 *	US-PATENT-APPL-SN-511894	c 03	N76-32140 *
US-PATENT-APPL-SN-475337	c 51	N76-29891 *	US-PATENT-APPL-SN-493942	c 14	N71-17659 *	US-PATENT-APPL-SN-512352	c 15	N70-33330 *
US-PATENT-APPL-SN-475338	c 35	N76-15431 *	US-PATENT-APPL-SN-493943	c 15	N71-21529 *	US-PATENT-APPL-SN-512509	c 26	N75-27125 *
US-PATENT-APPL-SN-476244	c 33	N84-22885 *	US-PATENT-APPL-SN-494280	c 28	N71-23081 *	US-PATENT-APPL-SN-512559	c 23	N71-22881 *
US-PATENT-APPL-SN-476759	c 03	N70-42073 *	US-PATENT-APPL-SN-494282	c 15	N69-39735 *	US-PATENT-APPL-SN-512561	c 16	N71-25914 *
US-PATENT-APPL-SN-476761	c 11	N71-10748 *	US-PATENT-APPL-SN-494283	c 31	N71-24035 *	US-PATENT-APPL-SN-512562	c 16	N71-24074 *
US-PATENT-APPL-SN-476763	c 09	N69-21313 *	US-PATENT-APPL-SN-494287	c 03	N71-22974 *	US-PATENT-APPL-SN-512795	c 27	N84-22745 *
US-PATENT-APPL-SN-477333	c 28	N70-41922 *	US-PATENT-APPL-SN-494739	c 07	N71-26291 *	US-PATENT-APPL-SN-512825	c 32	N76-15329 *
US-PATENT-APPL-SN-478129	c 25	N83-29325 *	US-PATENT-APPL-SN-495021	c 44	N78-13526 *	US-PATENT-APPL-SN-51317	c 14	N73-30389 *
US-PATENT-APPL-SN-478130	c 74	N85-23396 *	US-PATENT-APPL-SN-495022	c 60	N77-12721 *	US-PATENT-APPL-SN-513346	c 07	N79-14095 *
US-PATENT-APPL-SN-478131	c 26	N83-24639 *	US-PATENT-APPL-SN-495380	c 37	N85-29285 *	US-PATENT-APPL-SN-513389	c 25	N75-12087 *
US-PATENT-APPL-SN-478491	c 14	N69-21363 *	US-PATENT-APPL-SN-495381	c 24	N84-22695 *	US-PATENT-APPL-SN-513576	c 35	N76-29552 *
US-PATENT-APPL-SN-478800	c 37	N76-19436 *	US-PATENT-APPL-SN-495381	c 24	N85-21267 *	US-PATENT-APPL-SN-513611	c 24	N76-22309 *
US-PATENT-APPL-SN-478802	c 06	N74-27872 *	US-PATENT-APPL-SN-496205	c 14	N71-22965 *	US-PATENT-APPL-SN-513612	c 24	N80-33482 *
US-PATENT-APPL-SN-478802	c 35	N75-29381 *	US-PATENT-APPL-SN-496779	c 05	N76-29217 *	US-PATENT-APPL-SN-513612	c 05	N77-17029 *
US-PATENT-APPL-SN-478803	c 31	N76-14284 *	US-PATENT-APPL-SN-498167	c 03	N71-10608 *	US-PATENT-APPL-SN-513613	c 27	N78-15276 *
US-PATENT-APPL-SN-479353	c 15	N71-23256 *	US-PATENT-APPL-SN-498168	c 28	N71-21822 *	US-PATENT-APPL-SN-513690	c 37	N76-20480 *
US-PATENT-APPL-SN-479357	c 36	N77-19416 *	US-PATENT-APPL-SN-499122	c 15	N71-24164 *	US-PATENT-APPL-SN-514117	c 27	N86-19455 *
US-PATENT-APPL-SN-480210	c 11	N71-21474 *	US-PATENT-APPL-SN-499126	c 23	N86-19376 *	US-PATENT-APPL-SN-514407	c 18	N71-22894 *
US-PATENT-APPL-SN-480211	c 14	N71-26135 *	US-PATENT-APPL-SN-500044	c 35	N85-21597 *	US-PATENT-APPL-SN-514546	c 74	N76-20958 *
US-PATENT-APPL-SN-481020	c 36	N83-29681 *	US-PATENT-APPL-SN-500046	c 31	N83-28281 *	US-PATENT-APPL-SN-51473	c 02	N70-32466 *
US-PATENT-APPL-SN-481086	c 33	N84-33660 *	US-PATENT-APPL-SN-500435	c 14	N71-21082 *	US-PATENT-APPL-SN-51477	c 14	N72-25412 *
US-PATENT-APPL-SN-481106	c 09	N84-34448 *	US-PATENT-APPL-SN-500446	c 10	N71-23029 *	US-PATENT-APPL-SN-515484	c 14	N71-22993 *
US-PATENT-APPL-SN-482104	c 27	N76-22377 *	US-PATENT-APPL-SN-500651	c 07	N85-35195 *	US-PATENT-APPL-SN-516087	c 27	N85-20125 *
US-PATENT-APPL-SN-482105	c 27	N76-23426 *	US-PATENT-APPL-SN-500979	c 32	N76-18295 *	US-PATENT-APPL-SN-516150	c 05	N71-19440 *
US-PATENT-APPL-SN-482307	c 15	N71-21060 *	US-PATENT-APPL-SN-500980	c 72	N76-15860 *	US-PATENT-APPL-SN-516151	c 15	N70-41679 *
US-PATENT-APPL-SN-482311	c 05	N71-22748 *	US-PATENT-APPL-SN-500981	c 35	N77-10492 *	US-PATENT-APPL-SN-516152	c 14	N71-23225 *
US-PATENT-APPL-SN-482313	c 11	N69-24321 *	US-PATENT-APPL-SN-500982	c 75	N76-17951 *	US-PATENT-APPL-SN-516153	c 10	N71-28783 *
US-PATENT-APPL-SN-482670	c 14	N71-21007 *	US-PATENT-APPL-SN-501011	c 33	N76-18345 *	US-PATENT-APPL-SN-516154	c 09	N69-24330 *
US-PATENT-APPL-SN-482952	c 09	N71-28926 *	US-PATENT-APPL-SN-501012	c 33	N76-14373 *	US-PATENT-APPL-SN-516155	c 09	N71-23270 *
US-PATENT-APPL-SN-482953	c 74	N76-18913 *	US-PATENT-APPL-SN-501060	c 60	N84-28491 *	US-PATENT-APPL-SN-516158	c 09	N71-19479 *
US-PATENT-APPL-SN-482967	c 34	N76-18364 *	US-PATENT-APPL-SN-50206	c 07	N72-17109 *	US-PATENT-APPL-SN-516159	c 14	N70-41812 *
US-PATENT-APPL-SN-483301	c 36	N77-26477 *	US-PATENT-APPL-SN-50207	c 07	N72-20141 *	US-PATENT-APPL-SN-516160	c 33	N71-16277 *
US-PATENT-APPL-SN-483817	c 27	N79-21190 *	US-PATENT-APPL-SN-50208	c 14	N73-13418 *	US-PATENT-APPL-SN-516162	c 07	N71-28900 *
US-PATENT-APPL-SN-483850	c 37	N76-14460 *	US-PATENT-APPL-SN-502124	c 35	N76-16393 *	US-PATENT-APPL-SN-516217	c 27	N85-21350 *
US-PATENT-APPL-SN-483851	c 35	N76-15435 *	US-PATENT-APPL-SN-502135	c 35	N76-15433 *	US-PATENT-APPL-SN-516217	c 27	N85-21351 *
US-PATENT-APPL-SN-483852	c 33	N75-30430 *	US-PATENT-APPL-SN-502136	c 35	N75-27331 *	US-PATENT-APPL-SN-516217	c 27	N85-21352 *
US-PATENT-APPL-SN-483857	c 44	N76-14601 *	US-PATENT-APPL-SN-502137	c 37	N76-21554 *	US-PATENT-APPL-SN-516217	c 25	N85-28982 *
US-PATENT-APPL-SN-483858	c 35	N76-18400 *	US-PATENT-APPL-SN-502138	c 43	N77-10584 *	US-PATENT-APPL-SN-516217	c 25	N85-30039 *
US-PATENT-APPL-SN-483885	c 04	N71-23185 *	US-PATENT-APPL-SN-502693	c 15	N71-20739 *	US-PATENT-APPL-SN-516793	c 16	N71-22895 *
US-PATENT-APPL-SN-483886	c 09	N71-22988 *	US-PATENT-APPL-SN-502701	c 08	N71-23295 *	US-PATENT-APPL-SN-516794	c 14	N70-42074 *
US-PATENT-APPL-SN-483891	c 14	N69-39892 *	US-PATENT-APPL-SN-502709	c 31	N71-21881 *	US-PATENT-APPL-SN-517100	c 28	N70-33241 *
US-PATENT-APPL-SN-484156	c 11	N71-21475 *	US-PATENT-APPL-SN-502710	c 15	N71-23048 *	US-PATENT-APPL-SN-517156	c 14	N71-23093 *
US-PATENT-APPL-SN-484208	c 35	N75-30502 *	US-PATENT-APPL-SN-502729	c 31	N70-41871 *	US-PATENT-APPL-SN-517157	c 15	N71-22722 *
US-PATENT-APPL-SN-484209	c 35	N76-18403 *	US-PATENT-APPL-SN-502739	c 09	N71-23311 *	US-PATENT-APPL-SN-517158	c 14	N71-23401 *
US-PATENT-APPL-SN-484485	c 01	N71-23497 *	US-PATENT-APPL-SN-502740	c 14	N69-27485 *	US-PATENT-APPL-SN-517159	c 15	N71-20740 *
US-PATENT-APPL-SN-484489	c 10	N71-15909 *	US-PATENT-APPL-SN-502743	c 08	N71-19435 *	US-PATENT-APPL-SN-517858	c 14	N71-21006 *
US-PATENT-APPL-SN-484490	c 24	N71-20518 *	US-PATENT-APPL-SN-502746	c 03	N69-39898 *	US-PATENT-APPL-SN-517869	c 15	N71-23050 *
US-PATENT-APPL-SN-484745	c 35	N85-20295 *	US-PATENT-APPL-SN-502750	c 09	N71-19466 *	US-PATENT-APPL-SN-517995	c 39	N76-31562 *
US-PATENT-APPL-SN-484855	c 09	N71-19480 *	US-PATENT-APPL-SN-502753	c 07	N69-39978 *	US-PATENT-APPL-SN-518487	c 05	N71-11190 *
US-PATENT-APPL-SN-485058	c 06	N71-23500 *	US-PATENT-APPL-SN-502756	c 03	N71-23336 *	US-PATENT-APPL-SN-518544	c 44	N76-24696 *
US-PATENT-APPL-SN-485656	c 28	N71-10574 *	US-PATENT-APPL-SN-502820	c 27	N85-21347 *	US-PATENT-APPL-SN-518545	c 19	N76-22284 *
US-PATENT-APPL-SN-485957	c 25	N71-21694 *	US-PATENT-APPL-SN-50339	c 04	N72-33072 *	US-PATENT-APPL-SN-518546	c 26	N76-18257 *
US-PATENT-APPL-SN-485958	c 15	N71-24047 *	US-PATENT-APPL-SN-504225	c 35	N76-16392 *	US-PATENT-APPL-SN-518684	c 44	N76-22657 *
US-PATENT-APPL-SN-485960	c 15	N70-42017 *	US-PATENT-APPL-SN-504266	c 31	N71-21064 *	US-PATENT-APPL-SN-518685	c 35	N76-14429 *
US-PATENT-APPL-SN-48621	c 20	N78-32179 *	US-PATENT-APPL-SN-504345	c 33	N85-22877 *	US-PATENT-APPL-SN-519160	c 18	N71-20742 *
US-PATENT-APPL-SN-486470	c 44	N85-21768 *	US-PATENT-APPL-SN-505320	c 16	N71-18614 *	US-PATENT-APPL-SN-519161	c 05	N71-20718 *
US-PATENT-APPL-SN-486471	c 33	N85-21492 *	US-PATENT-APPL-SN-505321	c 10	N71-22962 *	US-PATENT-APPL-SN-519395	c 09	N69-24317 *
US-PATENT-APPL-SN-486573	c 10	N71-19469 *	US-PATENT-APPL-SN-505765	c 15	N71-23816 *	US-PATENT-APPL-SN-520838	c 08	N71-18595 *
US-PATENT-APPL-SN-486884	c 15	N73-32362 *	US-PATENT-APPL-SN-505819	c 33	N76-16331 *	US-PATENT-APPL-SN-520839	c 10	N71-19472 *
US-PATENT-APPL-SN-487156	c 44	N77-10636 *	US-PATENT-APPL-SN-505881	c 09	N76-24280 *	US-PATENT-APPL-SN-521006	c 34	N77-10463 *
US-PATENT-APPL-SN-487341	c 14	N71-19431 *	US-PATENT-APPL-SN-506135	c 06	N71-20905 *	US-PATENT-APPL-SN-521601	c 60	N76-14818 *
US-PATENT-APPL-SN-487342	c 09	N71-21583 *	US-PATENT-APPL-SN-506137	c 15	N71-23049 *	US-PATENT-APPL-SN-521602	c 37	N76-18854 *
US-PATENT-APPL-SN-487343	c 03	N69-39890 *	US-PATENT-APPL-SN-506477	c 33	N85-29146 *	US-PATENT-APPL-SN-521603	c 35	N75-29380 *
US-PATENT-APPL-SN-487344	c 15	N69-21472 *	US-PATENT-APPL-SN-506803	c 24	N79-25143 *	US-PATENT-APPL-SN-521620	c 09	N77-10071 *
US-PATENT-APPL-SN-487352	c 14	N71-18699 *	US-PATENT-APPL-SN-506804	c 35	N76-18402 *	US-PATENT-APPL-SN-521753	c 15	N70-41960 *
US-PATENT-APPL-SN-487852	c 23	N76-15268 *	US-PATENT-APPL-SN-506908	c 09	N71-18843 *	US-PATENT-APPL-SN-521754	c 07	N71-22984 *
US-PATENT-APPL-SN-487929	c 33	N74-20859 *	US-PATENT-APPL-SN-507254	c 14	N71-22990 *	US-PATENT-APPL-SN-521755	c 28	N71-22984 *
US-PATENT-APPL-SN-4879								

US-PATENT-APPL-SN-521996	c 15	N69-27871 *	#	US-PATENT-APPL-SN-538166	c 15	N71-21177 *	US-PATENT-APPL-SN-556513	c 33	N85-29143 *	#
US-PATENT-APPL-SN-521998	c 07	N69-24323 *	#	US-PATENT-APPL-SN-538168	c 23	N71-16098 *	US-PATENT-APPL-SN-556514	c 36	N84-15537 *	#
US-PATENT-APPL-SN-521999	c 12	N71-20815 *	#	US-PATENT-APPL-SN-538863	c 54	N78-17680 *	US-PATENT-APPL-SN-556784	c 09	N71-20447 *	#
US-PATENT-APPL-SN-522109	c 07	N78-17056 *	#	US-PATENT-APPL-SN-538905	c 08	N71-18594 *	US-PATENT-APPL-SN-556830	c 15	N71-26294 *	#
US-PATENT-APPL-SN-522551	c 76	N76-20994 *	#	US-PATENT-APPL-SN-538907	c 33	N71-28903 *	US-PATENT-APPL-SN-557016	c 15	N71-23086 *	#
US-PATENT-APPL-SN-522552	c 35	N76-16390 *	#	US-PATENT-APPL-SN-538908	c 33	N71-28900 *	US-PATENT-APPL-SN-557430	c 52	N77-14737 *	#
US-PATENT-APPL-SN-522556	c 35	N76-15432 *	#	US-PATENT-APPL-SN-538911	c 33	N71-22792 *	US-PATENT-APPL-SN-557448	c 45	N76-17656 *	#
US-PATENT-APPL-SN-5226628	c 08	N85-19985 *	#	US-PATENT-APPL-SN-538913	c 14	N71-17627 *	US-PATENT-APPL-SN-557565	c 24	N77-27187 *	#
US-PATENT-APPL-SN-522794	c 09	N71-23190 *	#	US-PATENT-APPL-SN-538982	c 33	N77-14333 *	US-PATENT-APPL-SN-557584	c 09	N71-20851 *	#
US-PATENT-APPL-SN-522795	c 20	N71-16281 *	#	US-PATENT-APPL-SN-538983	c 33	N76-18353 *	US-PATENT-APPL-SN-557861	c 03	N71-24605 *	#
US-PATENT-APPL-SN-522971	c 54	N76-24900 *	#	US-PATENT-APPL-SN-539230	c 37	N85-30335 *	US-PATENT-APPL-SN-557868	c 14	N70-41682 *	#
US-PATENT-APPL-SN-523297	c 24	N85-21266 *	#	US-PATENT-APPL-SN-539237	c 33	N71-16278 *	US-PATENT-APPL-SN-557871	c 10	N71-21483 *	#
US-PATENT-APPL-SN-523297	c 24	N85-35233 *	#	US-PATENT-APPL-SN-539255	c 18	N71-26153 *	US-PATENT-APPL-SN-558006	c 06	N72-31140 *	#
US-PATENT-APPL-SN-523511	c 28	N71-20942 *	#	US-PATENT-APPL-SN-539255	c 17	N72-28536 *	US-PATENT-APPL-SN-558600	c 74	N77-10899 *	#
US-PATENT-APPL-SN-523559	c 74	N85-29750 *	#	US-PATENT-APPL-SN-540414	c 15	N71-22799 *	US-PATENT-APPL-SN-559055	c 33	N71-29046 *	#
US-PATENT-APPL-SN-523560	c 60	N86-21154 *	#	US-PATENT-APPL-SN-540779	c 33	N79-12331 *	US-PATENT-APPL-SN-559349	c 33	N71-24145 *	#
US-PATENT-APPL-SN-523632	c 33	N78-17293 *	#	US-PATENT-APPL-SN-541399	c 14	N71-20428 *	US-PATENT-APPL-SN-559350	c 33	N71-28892 *	#
US-PATENT-APPL-SN-523991	c 35	N84-20808 *	#	US-PATENT-APPL-SN-541526	c 33	N85-20250 *	US-PATENT-APPL-SN-559351	c 14	N69-39785 *	#
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US-PATENT-APPL-SN-524746	c 14	N73-28491 *	#	US-PATENT-APPL-SN-542192	c 26	N75-27126 *	US-PATENT-APPL-SN-559846	c 34	N79-13289 *	#
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US-PATENT-APPL-SN-526448	c 44	N76-14602 *	#	US-PATENT-APPL-SN-542557	c 44	N85-30474 *	US-PATENT-APPL-SN-559847	c 34	N79-13288 *	#
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US-PATENT-APPL-SN-526450	c 35	N77-14409 *	#	US-PATENT-APPL-SN-542713	c 23	N71-23976 *	US-PATENT-APPL-SN-560035	c 24	N85-30027 *	#
US-PATENT-APPL-SN-526631	c 10	N71-19471 *	#	US-PATENT-APPL-SN-542721	c 02	N73-19004 *	US-PATENT-APPL-SN-560091	c 73	N78-19920 *	#
US-PATENT-APPL-SN-526664	c 07	N69-24334 *	#	US-PATENT-APPL-SN-542754	c 34	N76-18374 *	US-PATENT-APPL-SN-560967	c 15	N69-21922 *	#
US-PATENT-APPL-SN-526665	c 14	N69-24331 *	#	US-PATENT-APPL-SN-543206	c 05	N71-23159 *	US-PATENT-APPL-SN-560968	c 10	N71-24863 *	#
US-PATENT-APPL-SN-526739	c 37	N83-36484 *	#	US-PATENT-APPL-SN-543774	c 06	N69-39733 *	US-PATENT-APPL-SN-560969	c 14	N71-15622 *	#
US-PATENT-APPL-SN-526741	c 09	N84-12193 *	#	US-PATENT-APPL-SN-544611	c 33	N76-15373 *	US-PATENT-APPL-SN-561020	c 44	N76-23675 *	#
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US-PATENT-APPL-SN-526770	c 35	N85-21598 *	#	US-PATENT-APPL-SN-545223	c 03	N71-11056 *	US-PATENT-APPL-SN-561429	c 27	N85-21351 *	#
US-PATENT-APPL-SN-527331	c 17	N73-28573 *	#	US-PATENT-APPL-SN-545224	c 15	N69-21362 *	US-PATENT-APPL-SN-561431	c 27	N85-21350 *	#
US-PATENT-APPL-SN-527613	c 37	N86-19604 *	#	US-PATENT-APPL-SN-545228	c 07	N69-39736 *	US-PATENT-APPL-SN-561433	c 20	N84-15183 *	#
US-PATENT-APPL-SN-527727	c 02	N76-16014 *	#	US-PATENT-APPL-SN-545229	c 03	N69-21469 *	US-PATENT-APPL-SN-561433	c 35	N86-20752 *	#
US-PATENT-APPL-SN-527728	c 37	N76-18458 *	#	US-PATENT-APPL-SN-545282	c 35	N76-24524 *	US-PATENT-APPL-SN-561434	c 25	N85-30039 *	#
US-PATENT-APPL-SN-527790	c 33	N76-14372 *	#	US-PATENT-APPL-SN-545283	c 32	N77-12239 *	US-PATENT-APPL-SN-561435	c 27	N85-21352 *	#
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US-PATENT-APPL-SN-527918	c 09	N85-21178 *	#	US-PATENT-APPL-SN-545400	c 15	N72-29488 *	US-PATENT-APPL-SN-561764	c 32	N77-10392 *	#
US-PATENT-APPL-SN-528031	c 10	N69-39888 *	#	US-PATENT-APPL-SN-545400	c 37	N74-15125 *	US-PATENT-APPL-SN-561956	c 35	N77-17426 *	#
US-PATENT-APPL-SN-529593	c 27	N71-21819 *	#	US-PATENT-APPL-SN-545552	c 27	N70-34783 *	US-PATENT-APPL-SN-562443	c 09	N69-39734 *	#
US-PATENT-APPL-SN-529594	c 15	N69-27483 *	#	US-PATENT-APPL-SN-545552	c 20	N77-17143 *	US-PATENT-APPL-SN-562444	c 14	N71-22995 *	#
US-PATENT-APPL-SN-529594	c 33	N71-29152 *	#	US-PATENT-APPL-SN-545553	c 03	N69-21539 *	US-PATENT-APPL-SN-562445	c 14	N71-23797 *	#
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US-PATENT-APPL-SN-531575	c 32	N76-31372 *	#	US-PATENT-APPL-SN-547643	c 33	N79-33392 *	US-PATENT-APPL-SN-563646	c 05	N71-23096 *	#
US-PATENT-APPL-SN-531642	c 25	N71-21693 *	#	US-PATENT-APPL-SN-547677	c 10	N71-20448 *	US-PATENT-APPL-SN-563648	c 15	N71-17803 *	#
US-PATENT-APPL-SN-531647	c 04	N76-20114 *	#	US-PATENT-APPL-SN-548468	c 37	N76-27567 *	US-PATENT-APPL-SN-563650	c 25	N69-21929 *	#
US-PATENT-APPL-SN-531647	c 04	N77-19056 *	#	US-PATENT-APPL-SN-548559	c 44	N76-29700 *	US-PATENT-APPL-SN-563651	c 28	N71-23293 *	#
US-PATENT-APPL-SN-532006	c 23	N71-24857 *	#	US-PATENT-APPL-SN-548582	c 39	N86-20841 *	US-PATENT-APPL-SN-563890	c 35	N85-34373 *	#
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US-PATENT-APPL-SN-533608	c 32	N76-21366 *	#	US-PATENT-APPL-SN-550088	c 07	N71-24612 *	US-PATENT-APPL-SN-565481	c 09	N84-16221 *	#
US-PATENT-APPL-SN-533650	c 35	N75-27329 *	#	US-PATENT-APPL-SN-550681	c 02	N84-12092 *	US-PATENT-APPL-SN-565482	c 23	N84-16259 *	#
US-PATENT-APPL-SN-533659	c 14	N73-30390 *	#	US-PATENT-APPL-SN-551182	c 03	N71-23187 *	US-PATENT-APPL-SN-566392	c 14	N71-23175 *	#
US-PATENT-APPL-SN-533734	c 33	N77-10428 *	#	US-PATENT-APPL-SN-551184	c 37	N76-22541 *	US-PATENT-APPL-SN-566397	c 05	N71-23161 *	#
US-PATENT-APPL-SN-534265	c 32	N76-21365 *	#	US-PATENT-APPL-SN-551536	c 04	N84-12151 *	US-PATENT-APPL-SN-566493	c 44	N76-29701 *	#
US-PATENT-APPL-SN-534266	c 35	N76-24523 *	#	US-PATENT-APPL-SN-551694	c 31	N71-18611 *	US-PATENT-APPL-SN-566494	c 32	N77-30309 *	#
US-PATENT-APPL-SN-534295	c 15	N71-21076 *	#	US-PATENT-APPL-SN-551815	c 02	N71-11038 *	US-PATENT-APPL-SN-566495	c 33	N77-17351 *	#
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US-PATENT-APPL-SN-534901	c 14	N70-36807 *	#	US-PATENT-APPL-SN-551933	c 33	N71-14032 *	US-PATENT-APPL-SN-567686	c 15	N71-22994 *	#
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US-PATENT-APPL-SN-535304	c 09	N71-28810 *	#	US-PATENT-APPL-SN-553339	c 27	N84-16341 *	US-PATENT-APPL-SN-568160	c 10	N71-18724 *	#
US-PATENT-APPL-SN-535410	c 37	N76-15457 *	#	US-PATENT-APPL-SN-553339	c 27	N86-20560 *	US-PATENT-APPL-SN-568346	c 04	N69-27487 *	#
US-PATENT-APPL-SN-536210	c 17	N71-24830 *	#	US-PATENT-APPL-SN-553333	c 10	N73-16206 *	US-PATENT-APPL-SN-568352	c 09	N71-20842 *	#
US-PATENT-APPL-SN-536216	c 10	N71-23315 *	#	US-PATENT-APPL-SN-553687	c 44	N76-29704 *	US-PATENT-APPL-SN-568354	c 14	N71-22752 *	#
US-PATENT-APPL-SN-536217	c 10	N71-23544 *	#	US-PATENT-APPL-SN-553891	c 23	N71-16341 *	US-PATENT-APPL-SN-568355	c 32	N71-23971 *	#
US-PATENT-APPL-SN-536535	c 33	N76-14371 *	#	US-PATENT-APPL-SN-554277	c 07	N71-26579 *	US-PATENT-APPL-SN-568356	c 14	N71-15599 *	#
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US-PATENT-APPL-SN-536762	c 37	N76-22540 *	#	US-PATENT-APPL-SN-554899	c 15	N70-33382 *	US-PATENT-APPL-SN-568364	c 10	N71-26418 *	#
US-PATENT-APPL-SN-536785	c 33	N76-31409 *	#	US-PATENT-APPL-SN-554949	c 06	N71-20717 *	US-PATENT-APPL-SN-568541	c 24	N77-28225 *	#
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US-PATENT-APPL-SN-537024	c 44	N76-27664 *	#	US-PATENT-APPL-SN-554959	c 27	N79-21191 *	US-PATENT-APPL-SN-568620	c 10	N71-26626 *	#
US-PATENT-APPL-SN-537480	c 45	N76-31714 *	#	US-PATENT-APPL-SN-555189	c 08	N71-27255 *	US-PATENT-APPL-SN-568687	c 10	N71-19547 *	#
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US-PATENT-APPL-SN-571458	c 44	N77-10635 *	#	US-PATENT-APPL-SN-584094	c 26	N77-20201 *	#	US-PATENT-APPL-SN-601130	c 31	N86-21718 *	#
US-PATENT-APPL-SN-571459	c 54	N78-14784 *	#	US-PATENT-APPL-SN-584914	c 54	N78-17679 *	#	US-PATENT-APPL-SN-601228	c 15	N71-17652 *	#
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US-PATENT-APPL-SN-571614	c 35	N86-20750 *	#	US-PATENT-APPL-SN-585420	c 35	N76-31489 *	#	US-PATENT-APPL-SN-602049	c 35	N84-25015 *	#
US-PATENT-APPL-SN-571615	c 74	N84-16986 *	#	US-PATENT-APPL-SN-585898	c 33	N75-29318 *	#	US-PATENT-APPL-SN-602050	c 37	N85-34402 *	#
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US-PATENT-APPL-SN-571617	c 26	N85-35267 *	#	US-PATENT-APPL-SN-586325	c 31	N71-24315 *	#	US-PATENT-APPL-SN-602618	c 44	N76-31667 *	#
US-PATENT-APPL-SN-571821	c 20	N76-22296 *	#	US-PATENT-APPL-SN-586329	c 05	N71-24623 *	#	US-PATENT-APPL-SN-60276	c 22	N73-32528 *	#
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US-PATENT-APPL-SN-573162	c 37	N84-20859 *	#	US-PATENT-APPL-SN-588635	c 21	N71-15642 *	#	US-PATENT-APPL-SN-604337	c 27	N85-29044 *	#
US-PATENT-APPL-SN-573432	c 14	N71-23790 *	#	US-PATENT-APPL-SN-588651	c 31	N71-24813 *	#	US-PATENT-APPL-SN-604374	c 44	N76-29699 *	#
US-PATENT-APPL-SN-57399	c 03	N72-20034 *	#	US-PATENT-APPL-SN-588671	c 03	N71-23354 *	#	US-PATENT-APPL-SN-605090	c 15	N71-19485 *	#
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US-PATENT-APPL-SN-574218	c 52	N76-29895 *	#	US-PATENT-APPL-SN-589119	c 32	N77-32342 *	#	US-PATENT-APPL-SN-605092	c 05	N71-23317 *	#
US-PATENT-APPL-SN-574219	c 35	N76-31490 *	#	US-PATENT-APPL-SN-589172	c 27	N79-14214 *	#	US-PATENT-APPL-SN-605093	c 17	N71-24911 *	#
US-PATENT-APPL-SN-574280	c 15	N69-21460 *	#	US-PATENT-APPL-SN-589173	c 32	N77-12240 *	#	US-PATENT-APPL-SN-605094	c 09	N71-24808 *	#
US-PATENT-APPL-SN-574282	c 15	N69-23190 *	#	US-PATENT-APPL-SN-589233	c 33	N77-14335 *	#	US-PATENT-APPL-SN-605095	c 10	N71-19417 *	#
US-PATENT-APPL-SN-574282	c 15	N71-23025 *	#	US-PATENT-APPL-SN-590141	c 03	N69-24267 *	#	US-PATENT-APPL-SN-605096	c 15	N71-24834 *	#
US-PATENT-APPL-SN-574283	c 14	N69-24257 *	#	US-PATENT-APPL-SN-590144	c 15	N71-15606 *	#	US-PATENT-APPL-SN-605097	c 14	N69-21923 *	#
US-PATENT-APPL-SN-574284	c 08	N71-19763 *	#	US-PATENT-APPL-SN-590145	c 07	N69-39980 *	#	US-PATENT-APPL-SN-605098	c 09	N71-26092 *	#
US-PATENT-APPL-SN-574290	c 14	N71-20439 *	#	US-PATENT-APPL-SN-590146	c 09	N69-21926 *	#	US-PATENT-APPL-SN-605099	c 09	N71-23548 *	#
US-PATENT-APPL-SN-575291	c 33	N71-29151 *	#	US-PATENT-APPL-SN-590147	c 15	N71-21489 *	#	US-PATENT-APPL-SN-605100	c 15	N71-21536 *	#
US-PATENT-APPL-SN-575475	c 05	N69-23192 *	#	US-PATENT-APPL-SN-590158	c 05	N71-24147 *	#	US-PATENT-APPL-SN-605102	c 09	N69-39987 *	#
US-PATENT-APPL-SN-575930	c 06	N71-23230 *	#	US-PATENT-APPL-SN-590159	c 09	N69-24324 *	#	US-PATENT-APPL-SN-605031	c 28	N70-37980 *	#
US-PATENT-APPL-SN-576182	c 33	N71-24276 *	#	US-PATENT-APPL-SN-590182	c 37	N76-29588 *	#	US-PATENT-APPL-SN-605036	c 02	N70-38009 *	#
US-PATENT-APPL-SN-576183	c 09	N71-23525 *	#	US-PATENT-APPL-SN-590183	c 74	N79-13855 *	#	US-PATENT-APPL-SN-605518	c 15	N71-23023 *	#
US-PATENT-APPL-SN-576195	c 14	N71-21079 *	#	US-PATENT-APPL-SN-590921	c 71	N86-21276 *	#	US-PATENT-APPL-SN-605964	c 06	N73-30103 *	#
US-PATENT-APPL-SN-576308	c 07	N85-35194 *	#	US-PATENT-APPL-SN-590923	c 35	N85-34375 *	#	US-PATENT-APPL-SN-605994	c 06	N73-30101 *	#
US-PATENT-APPL-SN-576488	c 44	N76-28635 *	#	US-PATENT-APPL-SN-590925	c 26	N84-20670 *	#	US-PATENT-APPL-SN-606027	c 06	N73-30099 *	#
US-PATENT-APPL-SN-576521	c 09	N71-20864 *	#	US-PATENT-APPL-SN-590975	c 44	N78-31525 *	#	US-PATENT-APPL-SN-606036	c 06	N73-30100 *	#
US-PATENT-APPL-SN-576774	c 60	N77-19760 *	#	US-PATENT-APPL-SN-591000	c 15	N71-24044 *	#	US-PATENT-APPL-SN-606426	c 35	N84-25016 *	#
US-PATENT-APPL-SN-576792	c 14	N71-26136 *	#	US-PATENT-APPL-SN-591004	c 07	N71-11266 *	#	US-PATENT-APPL-SN-606431	c 37	N84-25063 *	#
US-PATENT-APPL-SN-576797	c 09	N69-24318 *	#	US-PATENT-APPL-SN-591007	c 16	N69-27491 *	#	US-PATENT-APPL-SN-606432	c 74	N84-25450 *	#
US-PATENT-APPL-SN-577114	c 15	N69-24320 *	#	US-PATENT-APPL-SN-591014	c 28	N71-24736 *	#	US-PATENT-APPL-SN-606462	c 08	N71-24891 *	#
US-PATENT-APPL-SN-577115	c 15	N71-17647 *	#	US-PATENT-APPL-SN-591089	c 24	N85-21267 *	#	US-PATENT-APPL-SN-606463	c 14	N71-24864 *	#
US-PATENT-APPL-SN-577545	c 08	N71-18893 *	#	US-PATENT-APPL-SN-591568	c 74	N76-31998 *	#	US-PATENT-APPL-SN-606464	c 15	N71-18579 *	#
US-PATENT-APPL-SN-577546	c 31	N71-23008 *	#	US-PATENT-APPL-SN-591569	c 37	N77-12402 *	#	US-PATENT-APPL-SN-606891	c 44	N77-14581 *	#
US-PATENT-APPL-SN-577548	c 09	N69-27422 *	#	US-PATENT-APPL-SN-591930	c 03	N69-21330 *	#	US-PATENT-APPL-SN-607461	c 05	N71-12346 *	#
US-PATENT-APPL-SN-577548	c 14	N72-28438 *	#	US-PATENT-APPL-SN-592159	c 07	N76-27232 *	#	US-PATENT-APPL-SN-607484	c 09	N71-26002 *	#
US-PATENT-APPL-SN-577549	c 15	N71-22721 *	#	US-PATENT-APPL-SN-592680	c 15	N71-12877 *	#	US-PATENT-APPL-SN-607608	c 14	N69-27484 *	#
US-PATENT-APPL-SN-577775	c 14	N71-17574 *	#	US-PATENT-APPL-SN-592694	c 05	N71-12342 *	#	US-PATENT-APPL-SN-607969	c 09	N76-23273 *	#
US-PATENT-APPL-SN-577778	c 03	N71-11050 *	#	US-PATENT-APPL-SN-593142	c 37	N77-17464 *	#	US-PATENT-APPL-SN-608247	c 15	N71-20813 *	#
US-PATENT-APPL-SN-578240	c 34	N77-18382 *	#	US-PATENT-APPL-SN-593593	c 06	N71-11239 *	#	US-PATENT-APPL-SN-608482	c 74	N77-20882 *	#
US-PATENT-APPL-SN-578241	c 52	N76-29896 *	#	US-PATENT-APPL-SN-593594	c 06	N71-11236 *	#	US-PATENT-APPL-SN-608483	c 09	N77-19076 *	#
US-PATENT-APPL-SN-578387	c 06	N84-20522 *	#	US-PATENT-APPL-SN-593595	c 06	N71-24740 *	#	US-PATENT-APPL-SN-608741	c 23	N85-28973 *	#
US-PATENT-APPL-SN-578388	c 06	N84-32383 *	#	US-PATENT-APPL-SN-593604	c 11	N69-27466 *	#	US-PATENT-APPL-SN-60876	c 15	N72-27485 *	#
US-PATENT-APPL-SN-578390	c 44	N85-30475 *	#	US-PATENT-APPL-SN-593605	c 06	N71-11242 *	#	US-PATENT-APPL-SN-60881	c 32	N72-25877 *	#
US-PATENT-APPL-SN-578397	c 20	N79-21124 *	#	US-PATENT-APPL-SN-593606	c 06	N71-11243 *	#	US-PATENT-APPL-SN-60882	c 05	N73-32011 *	#
US-PATENT-APPL-SN-578700	c 43	N82-13465 *	#	US-PATENT-APPL-SN-593607	c 07	N71-26102 *	#	US-PATENT-APPL-SN-60883	c 10	N73-13235 *	#
US-PATENT-APPL-SN-578916	c 14	N71-23036 *	#	US-PATENT-APPL-SN-594134	c 74	N86-20125 *	#	US-PATENT-APPL-SN-608944	c 15	N71-23798 *	#
US-PATENT-APPL-SN-578923	c 15	N71-21403 *	#	US-PATENT-APPL-SN-594584	c 14	N71-25892 *	#	US-PATENT-APPL-SN-609050	c 04	N73-27052 *	#
US-PATENT-APPL-SN-578925	c 23	N71-16355 *	#	US-PATENT-APPL-SN-594587	c 28	N71-21493 *	#	US-PATENT-APPL-SN-610723	c 14	N71-23755 *	#
US-PATENT-APPL-SN-578926	c 06	N69-39936 *	#	US-PATENT-APPL-SN-594633	c 15	N71-24046 *	#	US-PATENT-APPL-SN-610724	c 31	N71-28851 *	#
US-PATENT-APPL-SN-578928	c 26	N71-21824 *	#	US-PATENT-APPL-SN-595197	c 33	N77-10429 *	#	US-PATENT-APPL-SN-610728	c 31	N71-22969 *	#
US-PATENT-APPL-SN-578931	c 23	N71-21882 *	#	US-PATENT-APPL-SN-595254	c 17	N78-17140 *	#	US-PATENT-APPL-SN-610801	c 76	N77-32919 *	#
US-PATENT-APPL-SN-578932	c 08	N71-12505 *	#	US-PATENT-APPL-SN-595745	c 37	N77-32501 *	#	US-PATENT-APPL-SN-610802	c 35	N77-20400 *	#
US-PATENT-APPL-SN-579121	c 15	N71-29136 *	#	US-PATENT-APPL-SN-595747	c 37	N77-32500 *	#	US-PATENT-APPL-SN-611414	c 46	N74-23068 *	#
US-PATENT-APPL-SN-579300	c 20	N79-21123 *	#	US-PATENT-APPL-SN-596338	c 09	N71-20816 *	#	US-PATENT-APPL-SN-611414	c 46	N74-23069 *	#
US-PATENT-APPL-SN-579375	c 07	N77-14025 *	#	US-PATENT-APPL-SN-596641	c 07	N77-23106 *	#	US-PATENT-APPL-SN-612265	c 14	N72-22442 *	#
US-PATENT-APPL-SN-579376	c 20	N79-21125 *	#	US-PATENT-APPL-SN-596641	c 37	N78-10467 *	#	US-PATENT-APPL-SN-612568	c 15	N71-28952 *	#
US-PATENT-APPL-SN-579989	c 34	N77-32413 *	#	US-PATENT-APPL-SN-596733	c 15	N72-11389 *	#	US-PATENT-APPL-SN-612740	c 25	N71-20563 *	#
US-PATENT-APPL-SN-580365	c 15	N71-23255 *	#	US-PATENT-APPL-SN-596735	c 32	N71-24285 *	#	US-PATENT-APPL-SN-612899	c 07	N77-18154 *	#
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US-PATENT-APPL-SN-580419	c 34	N85-33433 *	#	US-PATENT-APPL-SN-596787	c 37	N78-31426 *	#	US-PATENT-APPL-SN-612965	c 52	N77-14735 *	#
US-PATENT-APPL-SN-580573	c 44	N85-34441 *	#	US-PATENT-APPL-SN-596788	c 33	N76-21390 *	#	US-PATENT-APPL-SN-612966	c 35	N78-12390 *	#
US-PATENT-APPL-SN-580574	c 18	N84-22610 *	#	US-PATENT-APPL-SN-596905	c 24	N77-19170 *	#	US-PATENT-APPL-SN-612967	c 74	N77-18893 *	#
US-PATENT-APPL-SN-58147	c 28	N70-33356 *	#	US-PATENT-APPL-SN-596959	c 18	N84-22609 *	#	US-PATENT-APPL-SN-613004	c 71	N77-26919 *	#
US-PATENT-APPL-SN-581514	c 70	N75-26789 *	#	US-PATENT-APPL-SN-596960	c 18	N86-20469 *	#	US-PATENT-APPL-SN-613139	c 27	N84-28987 *	#
US-PATENT-APPL-SN-581750	c 07	N78-18067 *	#	US-PATENT-APPL-SN-596960	c 37	N85-33490 *	#	US-PATENT-APPL-SN-613140	c 33	N86-20669 *	#
US-PATENT-APPL-SN-581751	c 37	N78-10468 *	#	US-PATENT-APPL-SN-597430	c 44	N81-29525 *	#	US-PATENT-APPL-SN-613235	c 14	N73-30394 *	#
US-PATENT-APPL-SN-581843	c 31	N79-21226 *	#	US-PATENT-APPL-SN-597430	c 44	N82-28780 *	#	US-PATENT-APPL-SN-61329	c 31	N70-37986 *	#
US-PATENT-APPL-SN-582171	c 32	N71-16428 *	#	US-PATENT-APPL-SN-598118	c 15	N69-27490 *	#	US-PATENT-APPL-SN-613734	c 52	N77-14738 *	#
US-PATENT-APPL-SN-582213	c 32	N74-22096 *	#	US-PATENT-APPL-SN-598119	c 08	N71-19437 *	#	US-PATENT-APPL-SN-613979	c 33	N71-14035 *	#
US-PATENT-APPL-SN-582318	c 33	N76-27472 *	#	US-PATENT-APPL-SN-598120	c 08	N71-18602 *	#	US-PATENT-APPL-SN-615030	c 35	N78-19465 *	#
US-PATENT-APPL-SN-582492	c 52	N85-30618 *	#	US-PATENT-APPL-SN-598504	c 37	N77-14477 *	#	US-PATENT-APPL-SN-61535	c 15	N72-25453 *	#
US-PATENT-APPL-SN-582493	c 24	N84-20649 *	#	US-PATENT-APPL-SN-598777	c 27	N85-34281 *	#	US-PATENT-APPL-SN-615505	c 34	N85-29180 *	#
US-PATENT-APPL-SN-582494	c 36	N84-25037 *	#	US-PATENT-APPL-SN-59882	c 06	N73-30097 *	#	US-PATENT-APPL-SN-616002	c 34	N84-32748 *	#
US-PATENT-APPL-SN-582495	c 44	N84-25164 *	#	US-PATENT-APPL-SN-59882	c 15	N74-27360 *	#	US-PATENT-APPL-SN-616332	c 24	N77-27188 *	#
US-PATENT-APPL-SN-582609	c 10	N71-19467 *	#	US-PATENT-APPL-SN-59883	c 15	N72-25456 *	#	US-PATENT-APPL-SN-616333	c 33	N76-32457 *	#
US-PATENT-APPL-SN-582643	c 35	N85-34374 *	#	US-PATENT-APPL-SN-59884	c 23	N73-13662 *	#	US-PATENT-APPL-SN-616472	c 74	N77-22951 *	#
US-PATENT-APPL-SN-583055	c 07</										

US-PATENT-APPL-SN-617871	c 27	N85-29043 *	#	US-PATENT-APPL-SN-638541	c 33	N86-20671 *	#	US-PATENT-APPL-SN-651972	c 27	N74-23125 *	#
US-PATENT-APPL-SN-617895	c 32	N77-14292 *	#	US-PATENT-APPL-SN-638584	c 33	N86-20670 *	#	US-PATENT-APPL-SN-652948	c 52	N77-14736 *	#
US-PATENT-APPL-SN-618594	c 37	N77-13418 *	#	US-PATENT-APPL-SN-638585	c 74	N84-33179 *	#	US-PATENT-APPL-SN-652979	c 45	N82-11634 *	#
US-PATENT-APPL-SN-61894	c 12	N72-21310 *	#	US-PATENT-APPL-SN-638586	c 32	N84-32620 *	#	US-PATENT-APPL-SN-653277	c 31	N71-23912 *	#
US-PATENT-APPL-SN-61895	c 07	N72-33146 *	#	US-PATENT-APPL-SN-638707	c 14	N69-27486 *	#	US-PATENT-APPL-SN-653278	c 14	N69-27503 *	#
US-PATENT-APPL-SN-618969	c 05	N71-26333 *	#	US-PATENT-APPL-SN-639589	c 28	N70-33372 *	#	US-PATENT-APPL-SN-653316	c 25	N77-32255 *	#
US-PATENT-APPL-SN-619519	c 32	N71-16106 *	#	US-PATENT-APPL-SN-640154	c 09	N71-18600 *	#	US-PATENT-APPL-SN-653422	c 35	N77-20401 *	#
US-PATENT-APPL-SN-619520	c 05	N69-21380 *	#	US-PATENT-APPL-SN-640447	c 15	N71-19486 *	#	US-PATENT-APPL-SN-653682	c 39	N78-10493 *	#
US-PATENT-APPL-SN-619521	c 06	N69-39889 *	#	US-PATENT-APPL-SN-640448	c 08	N71-19420 *	#	US-PATENT-APPL-SN-654787	c 07	N77-32148 *	#
US-PATENT-APPL-SN-619903	c 15	N69-27505 *	#	US-PATENT-APPL-SN-640449	c 09	N71-19516 *	#	US-PATENT-APPL-SN-655149	c 07	N77-23106 *	#
US-PATENT-APPL-SN-619907	c 09	N69-21543 *	#	US-PATENT-APPL-SN-640450	c 15	N71-17694 *	#	US-PATENT-APPL-SN-655548	c 18	N70-39897 *	#
US-PATENT-APPL-SN-619908	c 08	N71-20571 *	#	US-PATENT-APPL-SN-640452	c 09	N71-12513 *	#	US-PATENT-APPL-SN-655601	c 32	N85-29120 *	#
US-PATENT-APPL-SN-619986	c 37	N75-32465 *	#	US-PATENT-APPL-SN-640453	c 23	N71-16099 *	#	US-PATENT-APPL-SN-655605	c 52	N85-20639 *	#
US-PATENT-APPL-SN-620675	c 35	N78-19466 *	#	US-PATENT-APPL-SN-640454	c 06	N71-11238 *	#	US-PATENT-APPL-SN-655606	c 32	N85-20226 *	#
US-PATENT-APPL-SN-621098	c 09	N71-20446 *	#	US-PATENT-APPL-SN-640455	c 10	N71-23099 *	#	US-PATENT-APPL-SN-655675	c 17	N71-24142 *	#
US-PATENT-APPL-SN-621714	c 15	N71-19569 *	#	US-PATENT-APPL-SN-640456	c 03	N71-26726 *	#	US-PATENT-APPL-SN-655677	c 08	N71-19432 *	#
US-PATENT-APPL-SN-621715	c 05	N71-11207 *	#	US-PATENT-APPL-SN-640457	c 03	N71-11052 *	#	US-PATENT-APPL-SN-655724	c 15	N71-22706 *	#
US-PATENT-APPL-SN-621742	c 28	N71-23968 *	#	US-PATENT-APPL-SN-640458	c 15	N71-23811 *	#	US-PATENT-APPL-SN-656952	c 09	N71-12519 *	#
US-PATENT-APPL-SN-623156	c 04	N77-19056 *	#	US-PATENT-APPL-SN-640459	c 10	N71-18723 *	#	US-PATENT-APPL-SN-656953	c 14	N71-17585 *	#
US-PATENT-APPL-SN-623187	c 34	N77-19353 *	#	US-PATENT-APPL-SN-640460	c 14	N69-21541 *	#	US-PATENT-APPL-SN-656993	c 09	N71-24843 *	#
US-PATENT-APPL-SN-623188	c 54	N77-21844 *	#	US-PATENT-APPL-SN-640462	c 15	N71-20443 *	#	US-PATENT-APPL-SN-656995	c 21	N71-14132 *	#
US-PATENT-APPL-SN-623238	c 51	N77-25769 *	#	US-PATENT-APPL-SN-640712	c 24	N85-35233 *	#	US-PATENT-APPL-SN-657309	c 35	N85-20298 *	#
US-PATENT-APPL-SN-623389	c 31	N81-15154 *	#	US-PATENT-APPL-SN-640781	c 03	N69-25146 *	#	US-PATENT-APPL-SN-657310	c 35	N85-20299 *	#
US-PATENT-APPL-SN-623536	c 09	N78-18083 *	#	US-PATENT-APPL-SN-640783	c 09	N71-26000 *	#	US-PATENT-APPL-SN-657742	c 18	N71-26100 *	#
US-PATENT-APPL-SN-625077	c 33	N84-29084 *	#	US-PATENT-APPL-SN-640784	c 15	N69-39935 *	#	US-PATENT-APPL-SN-657903	c 07	N83-33884 *	#
US-PATENT-APPL-SN-625732	c 35	N77-18417 *	#	US-PATENT-APPL-SN-640785	c 09	N69-24333 *	#	US-PATENT-APPL-SN-657907	c 27	N78-17213 *	#
US-PATENT-APPL-SN-625733	c 26	N77-28265 *	#	US-PATENT-APPL-SN-640786	c 15	N71-24695 *	#	US-PATENT-APPL-SN-657995	c 35	N77-22450 *	#
US-PATENT-APPL-SN-625734	c 35	N78-10428 *	#	US-PATENT-APPL-SN-640787	c 28	N71-24321 *	#	US-PATENT-APPL-SN-657996	c 60	N78-10709 *	#
US-PATENT-APPL-SN-625759	c 37	N77-14478 *	#	US-PATENT-APPL-SN-640788	c 15	N69-27502 *	#	US-PATENT-APPL-SN-657997	c 60	N77-32731 *	#
US-PATENT-APPL-SN-625781	c 33	N77-31404 *	#	US-PATENT-APPL-SN-640789	c 15	N69-27504 *	#	US-PATENT-APPL-SN-657998	c 27	N78-32262 *	#
US-PATENT-APPL-SN-626376	c 05	N71-11189 *	#	US-PATENT-APPL-SN-641143	c 27	N85-34280 *	#	US-PATENT-APPL-SN-658132	c 44	N77-32580 *	#
US-PATENT-APPL-SN-626942	c 51	N77-27677 *	#	US-PATENT-APPL-SN-641146	c 76	N84-33211 *	#	US-PATENT-APPL-SN-658133	c 71	N78-10837 *	#
US-PATENT-APPL-SN-627257	c 08	N71-12504 *	#	US-PATENT-APPL-SN-641147	c 27	N85-21364 *	#	US-PATENT-APPL-SN-65840	c 10	N77-20225 *	#
US-PATENT-APPL-SN-627599	c 18	N71-16046 *	#	US-PATENT-APPL-SN-641152	c 23	N86-20499 *	#	US-PATENT-APPL-SN-658449	c 32	N77-20289 *	#
US-PATENT-APPL-SN-628094	c 16	N71-20400 *	#	US-PATENT-APPL-SN-641153	c 27	N85-21362 *	#	US-PATENT-APPL-SN-658450	c 37	N77-22482 *	#
US-PATENT-APPL-SN-628221	c 07	N78-18066 *	#	US-PATENT-APPL-SN-641420	c 03	N71-23449 *	#	US-PATENT-APPL-SN-658487	c 37	N81-25371 *	#
US-PATENT-APPL-SN-628246	c 15	N71-17687 *	#	US-PATENT-APPL-SN-641431	c 30	N71-16090 *	#	US-PATENT-APPL-SN-658955	c 14	N71-15605 *	#
US-PATENT-APPL-SN-628247	c 09	N69-21542 *	#	US-PATENT-APPL-SN-641441	c 08	N71-18751 *	#	US-PATENT-APPL-SN-658956	c 15	N71-15607 *	#
US-PATENT-APPL-SN-628248	c 14	N69-27432 *	#	US-PATENT-APPL-SN-641784	c 37	N77-32499 *	#	US-PATENT-APPL-SN-658957	c 14	N71-17584 *	#
US-PATENT-APPL-SN-628866	c 31	N85-20153 *	#	US-PATENT-APPL-SN-641802	c 34	N77-30399 *	#	US-PATENT-APPL-SN-658964	c 19	N71-26674 *	#
US-PATENT-APPL-SN-629456	c 37	N77-14479 *	#	US-PATENT-APPL-SN-641803	c 35	N78-18391 *	#	US-PATENT-APPL-SN-658999	c 44	N82-24645 *	#
US-PATENT-APPL-SN-629457	c 35	N77-32454 *	#	US-PATENT-APPL-SN-642224	c 17	N70-38490 *	#	US-PATENT-APPL-SN-659474	c 35	N85-20301 *	#
US-PATENT-APPL-SN-629458	c 35	N78-17357 *	#	US-PATENT-APPL-SN-642226	c 17	N78-38198 *	#	US-PATENT-APPL-SN-659475	c 31	N85-20156 *	#
US-PATENT-APPL-SN-629759	c 15	N71-16076 *	#	US-PATENT-APPL-SN-642310	c 44	N86-19721 *	#	US-PATENT-APPL-SN-659882	c 37	N78-13436 *	#
US-PATENT-APPL-SN-630579	c 35	N77-24454 *	#	US-PATENT-APPL-SN-642602	c 54	N84-33021 *	#	US-PATENT-APPL-SN-66004	c 15	N72-25450 *	#
US-PATENT-APPL-SN-630583	c 33	N77-24375 *	#	US-PATENT-APPL-SN-643041	c 44	N78-19599 *	#	US-PATENT-APPL-SN-6600571	c 26	N71-23654 *	#
US-PATENT-APPL-SN-631341	c 60	N78-17691 *	#	US-PATENT-APPL-SN-643043	c 35	N78-13400 *	#	US-PATENT-APPL-SN-6600572	c 15	N71-15571 *	#
US-PATENT-APPL-SN-63144	c 16	N72-28521 *	#	US-PATENT-APPL-SN-643332	c 15	N71-14932 *	#	US-PATENT-APPL-SN-660073	c 15	N71-28936 *	#
US-PATENT-APPL-SN-631848	c 09	N71-12514 *	#	US-PATENT-APPL-SN-643522	c 15	N85-11122 *	#	US-PATENT-APPL-SN-660841	c 14	N71-15621 *	#
US-PATENT-APPL-SN-63195	c 14	N72-27408 *	#	US-PATENT-APPL-SN-643524	c 27	N85-20128 *	#	US-PATENT-APPL-SN-660842	c 14	N71-23726 *	#
US-PATENT-APPL-SN-632104	c 09	N71-19470 *	#	US-PATENT-APPL-SN-643589	c 27	N85-21360 *	#	US-PATENT-APPL-SN-660843	c 08	N71-24650 *	#
US-PATENT-APPL-SN-632111	c 37	N79-10422 *	#	US-PATENT-APPL-SN-643897	c 73	N78-32848 *	#	US-PATENT-APPL-SN-6610	c 15	N72-22492 *	#
US-PATENT-APPL-SN-632112	c 35	N77-22449 *	#	US-PATENT-APPL-SN-643991	c 31	N72-25842 *	#	US-PATENT-APPL-SN-661170	c 14	N71-24809 *	#
US-PATENT-APPL-SN-632152	c 10	N71-24798 *	#	US-PATENT-APPL-SN-644444	c 09	N71-18721 *	#	US-PATENT-APPL-SN-661478	c 05	N85-19980 *	#
US-PATENT-APPL-SN-632154	c 09	N69-39984 *	#	US-PATENT-APPL-SN-644446	c 14	N71-24693 *	#	US-PATENT-APPL-SN-6615	c 03	N72-25019 *	#
US-PATENT-APPL-SN-632162	c 14	N69-39937 *	#	US-PATENT-APPL-SN-644447	c 14	N71-24234 *	#	US-PATENT-APPL-SN-6616	c 03	N72-22042 *	#
US-PATENT-APPL-SN-632163	c 30	N71-23723 *	#	US-PATENT-APPL-SN-644448	c 17	N69-25147 *	#	US-PATENT-APPL-SN-6617	c 15	N72-22488 *	#
US-PATENT-APPL-SN-632164	c 15	N69-24319 *	#	US-PATENT-APPL-SN-644799	c 17	N71-15468 *	#	US-PATENT-APPL-SN-66206	c 11	N73-13257 *	#
US-PATENT-APPL-SN-632165	c 14	N71-26266 *	#	US-PATENT-APPL-SN-645500	c 74	N77-28932 *	#	US-PATENT-APPL-SN-662175	c 09	N77-27131 *	#
US-PATENT-APPL-SN-633178	c 25	N84-32447 *	#	US-PATENT-APPL-SN-645502	c 24	N79-25143 *	#	US-PATENT-APPL-SN-662176	c 32	N77-21267 *	#
US-PATENT-APPL-SN-633179	c 34	N86-12547 *	#	US-PATENT-APPL-SN-645507	c 26	N77-32280 *	#	US-PATENT-APPL-SN-662181	c 25	N82-21269 *	#
US-PATENT-APPL-SN-633180	c 09	N84-32398 *	#	US-PATENT-APPL-SN-645508	c 44	N77-14580 *	#	US-PATENT-APPL-SN-662182	c 37	N78-27424 *	#
US-PATENT-APPL-SN-633363	c 44	N84-32912 *	#	US-PATENT-APPL-SN-645510	c 32	N77-30308 *	#	US-PATENT-APPL-SN-662182	c 35	N79-26372 *	#
US-PATENT-APPL-SN-633683	c 08	N72-20177 *	#	US-PATENT-APPL-SN-645563	c 31	N71-20396 *	#	US-PATENT-APPL-SN-662763	c 15	N73-12489 *	#
US-PATENT-APPL-SN-633884	c 05	N72-22093 *	#	US-PATENT-APPL-SN-645571	c 35	N77-14407 *	#	US-PATENT-APPL-SN-662828	c 11	N71-18578 *	#
US-PATENT-APPL-SN-633876	c 27	N78-19302 *	#	US-PATENT-APPL-SN-645573	c 24	N71-25555 *	#	US-PATENT-APPL-SN-662829	c 15	N71-15597 *	#
US-PATENT-APPL-SN-633877	c 27	N77-13217 *	#	US-PATENT-APPL-SN-645584	c 08	N71-12494 *	#	US-PATENT-APPL-SN-663008	c 37	N77-28486 *	#
US-PATENT-APPL-SN-634038	c 25	N71-16073 *	#	US-PATENT-APPL-SN-646044	c 37	N85-34403 *	#	US-PATENT-APPL-SN-663180	c 10	N71-23663 *	#
US-PATENT-APPL-SN-634040	c 15	N71-19489 *	#	US-PATENT-APPL-SN-646124	c 15	N71-23817 *	#	US-PATENT-APPL-SN-663840	c 27	N86-20561 *	#
US-PATENT-APPL-SN-634060	c 09	N69-39897 *	#	US-PATENT-APPL-SN-646333	c 35	N80-26635 *	#	US-PATENT-APPL-SN-664091	c 43	N79-17288 *	#
US-PATENT-APPL-SN-634205	c 35	N77-14406 *	#	US-PATENT-APPL-SN-646424	c 07	N69-27460 *	#	US-PATENT-APPL-SN-665032	c 74	N77-22950 *	#
US-PATENT-APPL-SN-634214	c 73	N78-28913 *	#	US-PATENT-APPL-SN-646704	c 36	N77-25499 *	#	US-PATENT-APPL-SN-665033	c 20	N77-20162 *	#
US-PATENT-APPL-SN-634304	c 27	N79-18052 *	#	US-PATENT-APPL-SN-646934	c 08	N71-18692 *	#	US-PATENT-APPL-SN-665209	c 14	N71-23725 *	#
US-PATENT-APPL-SN-635325	c 14	N69-27431 *	#	US-PATENT-APPL-SN-64709	c 10	N72-28240 *	#	US-PATENT-APPL-SN-665676	c 14	N71-19568 *	#
US-PATENT-APPL-SN-635326	c 14	N71-18482 *	#	US-PATENT-APPL-SN-64723	c 07	N72-25170 *	#	US-PATENT-APPL-SN-665679	c 15	N71-20395 *	#
US-PATENT-APPL-SN-635327	c 12	N69-39988 *	#	US-PATENT-APPL-SN-647298	c 31	N71-16102 *	#	US-PATENT-APPL-SN-665680	c 24	N71-16213 *	#
US-PATENT-APPL-SN-635328	c 09	N69-21467 *	#	US-PATENT-APPL-SN-648034	c 09	N79-21083 *	#	US-PATENT-APPL-SN-665681	c 15	N71-18616 *	#
US-PATENT-APPL-SN-635332	c 08	N72-25209 *	#	US-PATENT-APPL-SN-648185	c 26	N85-21325 *	#	US-PATENT-APPL-SN-665734	c 35	N78-18390 *	#
US-PATENT-APPL-SN-635519	c 35	N77-24455 *	#	US-PATENT-APPL-SN-648700	c 74	N78-13874 *	#	US-PATENT-APPL-SN-666551	c 14	N71-23698 *	#
US-PATENT-APPL-SN-635531	c 33	N77-14334 *	#	US-PATENT-APPL-SN-649075	c 14	N71-15600 *	#	US-PATENT-APPL-SN-666553	c 03	N71-11055 *	#
US-PATENT-APPL-SN-635970	c 15	N69-21465 *	#	US-PATENT-APPL-SN-649076	c 08	N71-24890 *	#	US-PATENT-APPL-SN-666554	c 33	N71-16104 *	#
US-PATENT-APPL-SN-635972	c 18	N71-23710 *	#	US-PATENT-APPL-SN-649078	c 07	N71-19493 *	#	US-PATENT-APPL-SN-666555	c 07	N71-24614 *	#
US-PATENT-APPL-SN-63610	c 06	N72-25147 *	#	US-PATENT-APPL-SN-649327	c 33	N85-20249 *	#	US-PATENT-APPL-SN-666992	c 27	N77-30236 *	#
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US-PATENT-APPL-SN-668257	c 23	N71-16100 *	US-PATENT-APPL-SN-682435	c 27	N77-32308 *	US-PATENT-APPL-SN-69488	c 23	N75-14834 *
US-PATENT-APPL-SN-668302	c 07	N71-12390 *	US-PATENT-APPL-SN-683073	c 44	N81-29525 *	US-PATENT-APPL-SN-695513	c 07	N78-25089 *
US-PATENT-APPL-SN-668432	c 31	N85-20154 *	US-PATENT-APPL-SN-683073	c 44	N82-28780 *	US-PATENT-APPL-SN-695973	c 05	N71-12343 *
US-PATENT-APPL-SN-668751	c 06	N71-11237 *	US-PATENT-APPL-SN-683101	c 33	N85-20247 *	US-PATENT-APPL-SN-696374	c 44	N80-29835 *
US-PATENT-APPL-SN-668755	c 15	N71-17693 *	US-PATENT-APPL-SN-683110	c 37	N86-20805 *	US-PATENT-APPL-SN-696679	c 38	N79-14388 *
US-PATENT-APPL-SN-668771	c 35	N78-32397 *	US-PATENT-APPL-SN-683111	c 33	N85-20251 *	US-PATENT-APPL-SN-696989	c 27	N77-30237 *
US-PATENT-APPL-SN-668783	c 28	N80-10374 *	US-PATENT-APPL-SN-683465	c 27	N82-29451 *	US-PATENT-APPL-SN-697075	c 15	N71-27184 *
US-PATENT-APPL-SN-668968	c 09	N71-12515 *	US-PATENT-APPL-SN-683507	c 15	N71-15609 *	US-PATENT-APPL-SN-697341	c 09	N71-23188 *
US-PATENT-APPL-SN-668969	c 08	N71-19288 *	US-PATENT-APPL-SN-683606	c 09	N71-24717 *	US-PATENT-APPL-SN-698239	c 33	N78-17294 *
US-PATENT-APPL-SN-668971	c 07	N78-33101 *	US-PATENT-APPL-SN-683612	c 01	N69-39981 *	US-PATENT-APPL-SN-698592	c 15	N71-18580 *
US-PATENT-APPL-SN-669140	c 44	N85-20535 *	US-PATENT-APPL-SN-683613	c 15	N71-15610 *	US-PATENT-APPL-SN-698629	c 09	N71-12516 *
US-PATENT-APPL-SN-669336	c 15	N71-17651 *	US-PATENT-APPL-SN-684045	c 07	N80-26298 *	US-PATENT-APPL-SN-698630	c 09	N71-24841 *
US-PATENT-APPL-SN-669911	c 33	N78-17295 *	US-PATENT-APPL-SN-684083	c 09	N71-24596 *	US-PATENT-APPL-SN-698641	c 74	N85-20868 *
US-PATENT-APPL-SN-669928	c 44	N77-22607 *	US-PATENT-APPL-SN-684171	c 26	N78-18183 *	US-PATENT-APPL-SN-698646	c 24	N78-15180 *
US-PATENT-APPL-SN-670814	c 03	N71-19545 *	US-PATENT-APPL-SN-684178	c 15	N71-23812 *	US-PATENT-APPL-SN-699002	c 32	N78-15323 *
US-PATENT-APPL-SN-670829	c 28	N72-23809 *	US-PATENT-APPL-SN-684186	c 35	N85-20297 *	US-PATENT-APPL-SN-699012	c 33	N78-27326 *
US-PATENT-APPL-SN-672209	c 52	N82-22875 *	US-PATENT-APPL-SN-684190	c 54	N85-20666 *	US-PATENT-APPL-SN-700040	c 18	N72-23581 *
US-PATENT-APPL-SN-672210	c 25	N78-10224 *	US-PATENT-APPL-SN-684192	c 54	N85-21986 *	US-PATENT-APPL-SN-700120	c 15	N71-20440 *
US-PATENT-APPL-SN-672219	c 37	N80-28711 *	US-PATENT-APPL-SN-684193	c 54	N85-21987 *	US-PATENT-APPL-SN-700142	c 21	N71-14159 *
US-PATENT-APPL-SN-672219	c 37	N81-26447 *	US-PATENT-APPL-SN-684194	c 35	N85-20300 *	US-PATENT-APPL-SN-700174	c 02	N71-20570 *
US-PATENT-APPL-SN-672220	c 31	N78-17237 *	US-PATENT-APPL-SN-684209	c 10	N71-19418 *	US-PATENT-APPL-SN-700255	c 33	N85-20248 *
US-PATENT-APPL-SN-672221	c 07	N78-27121 *	US-PATENT-APPL-SN-684807	c 75	N78-27913 *	US-PATENT-APPL-SN-700332	c 11	N71-12964 *
US-PATENT-APPL-SN-672222	c 07	N78-25090 *	US-PATENT-APPL-SN-684894	c 17	N71-26773 *	US-PATENT-APPL-SN-700467	c 52	N79-14749 *
US-PATENT-APPL-SN-672223	c 51	N78-27733 *	US-PATENT-APPL-SN-685027	c 25	N78-10225 *	US-PATENT-APPL-SN-700541	c 10	N71-25139 *
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US-PATENT-APPL-SN-672382	c 15	N71-23815 *	US-PATENT-APPL-SN-685473	c 17	N71-16044 *	US-PATENT-APPL-SN-700673	c 39	N77-28511 *
US-PATENT-APPL-SN-672383	c 15	N71-24045 *	US-PATENT-APPL-SN-685497	c 07	N69-39974 *	US-PATENT-APPL-SN-700984	c 11	N71-19494 *
US-PATENT-APPL-SN-672384	c 15	N71-27067 *	US-PATENT-APPL-SN-685607	c 37	N86-21850 *	US-PATENT-APPL-SN-700985	c 15	N69-23190 *
US-PATENT-APPL-SN-672388	c 26	N72-17820 *	US-PATENT-APPL-SN-685748	c 07	N71-11282 *	US-PATENT-APPL-SN-700986	c 12	N71-26387 *
US-PATENT-APPL-SN-672636	c 37	N79-11405 *	US-PATENT-APPL-SN-685750	c 27	N71-16392 *	US-PATENT-APPL-SN-700987	c 09	N71-19610 *
US-PATENT-APPL-SN-672695	c 27	N78-17206 *	US-PATENT-APPL-SN-685756	c 14	N69-27459 *	US-PATENT-APPL-SN-701244	c 05	N72-20096 *
US-PATENT-APPL-SN-672815	c 37	N77-23482 *	US-PATENT-APPL-SN-685766	c 15	N69-21924 *	US-PATENT-APPL-SN-701448	c 52	N78-10686 *
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US-PATENT-APPL-SN-673227	c 11	N71-24964 *	US-PATENT-APPL-SN-686209	c 15	N71-23809 *	US-PATENT-APPL-SN-701635	c 12	N71-17578 *
US-PATENT-APPL-SN-673228	c 07	N71-19433 *	US-PATENT-APPL-SN-686248	c 14	N71-26774 *	US-PATENT-APPL-SN-701654	c 03	N71-11049 *
US-PATENT-APPL-SN-673229	c 33	N71-15641 *	US-PATENT-APPL-SN-686296	c 18	N71-14014 *	US-PATENT-APPL-SN-701679	c 02	N71-19287 *
US-PATENT-APPL-SN-673685	c 60	N85-20680 *	US-PATENT-APPL-SN-686331	c 38	N78-32447 *	US-PATENT-APPL-SN-701679	c 07	N73-20174 *
US-PATENT-APPL-SN-674194	c 27	N78-17215 *	US-PATENT-APPL-SN-686344	c 15	N71-17688 *	US-PATENT-APPL-SN-701732	c 24	N71-16095 *
US-PATENT-APPL-SN-674195	c 74	N78-17866 *	US-PATENT-APPL-SN-686449	c 34	N78-18355 *	US-PATENT-APPL-SN-701733	c 10	N71-24844 *
US-PATENT-APPL-SN-674355	c 14	N71-20429 *	US-PATENT-APPL-SN-686796	c 15	N70-33311 *	US-PATENT-APPL-SN-701744	c 21	N71-13958 *
US-PATENT-APPL-SN-674356	c 14	N71-23699 *	US-PATENT-APPL-SN-686933	c 14	N71-17588 *	US-PATENT-APPL-SN-701767	c 07	N71-26101 *
US-PATENT-APPL-SN-674357	c 05	N71-12351 *	US-PATENT-APPL-SN-686959	c 02	N85-28922 *	US-PATENT-APPL-SN-702115	c 71	N79-14871 *
US-PATENT-APPL-SN-674395	c 76	N85-22178 *	US-PATENT-APPL-SN-687251	c 52	N79-12694 *	US-PATENT-APPL-SN-702396	c 31	N71-16345 *
US-PATENT-APPL-SN-674700	c 27	N77-31308 *	US-PATENT-APPL-SN-687822	c 44	N78-14625 *	US-PATENT-APPL-SN-702911	c 15	N71-24875 *
US-PATENT-APPL-SN-675238	c 10	N71-26374 *	US-PATENT-APPL-SN-688742	c 15	N71-20441 *	US-PATENT-APPL-SN-702967	c 06	N71-24739 *
US-PATENT-APPL-SN-675328	c 35	N78-15461 *	US-PATENT-APPL-SN-688743	c 15	N71-20393 *	US-PATENT-APPL-SN-703107	c 37	N77-22479 *
US-PATENT-APPL-SN-675351	c 35	N78-10429 *	US-PATENT-APPL-SN-688805	c 14	N71-17701 *	US-PATENT-APPL-SN-703847	c 72	N85-30779 *
US-PATENT-APPL-SN-676012	c 05	N71-11193 *	US-PATENT-APPL-SN-688807	c 03	N71-23239 *	US-PATENT-APPL-SN-703905	c 32	N80-14281 *
US-PATENT-APPL-SN-676375	c 14	N71-18483 *	US-PATENT-APPL-SN-688852	c 44	N78-28594 *	US-PATENT-APPL-SN-704180	c 36	N78-27402 *
US-PATENT-APPL-SN-676386	c 08	N71-12507 *	US-PATENT-APPL-SN-688854	c 54	N77-32722 *	US-PATENT-APPL-SN-704224	c 18	N71-15469 *
US-PATENT-APPL-SN-676387	c 10	N71-25950 *	US-PATENT-APPL-SN-688856	c 54	N78-32720 *	US-PATENT-APPL-SN-704299	c 10	N71-26577 *
US-PATENT-APPL-SN-676391	c 21	N71-11766 *	US-PATENT-APPL-SN-688868	c 15	N71-17686 *	US-PATENT-APPL-SN-704420	c 05	N71-11202 *
US-PATENT-APPL-SN-676432	c 28	N78-24365 *	US-PATENT-APPL-SN-689455	c 54	N74-32546 *	US-PATENT-APPL-SN-704446	c 10	N71-33407 *
US-PATENT-APPL-SN-676432	c 28	N80-20402 *	US-PATENT-APPL-SN-690163	c 14	N71-18465 *	US-PATENT-APPL-SN-704465	c 07	N71-24741 *
US-PATENT-APPL-SN-676432	c 28	N81-14103 *	US-PATENT-APPL-SN-690172	c 11	N72-22245 *	US-PATENT-APPL-SN-704468	c 25	N79-28253 *
US-PATENT-APPL-SN-676433	c 52	N77-28716 *	US-PATENT-APPL-SN-690273	c 20	N85-20008 *	US-PATENT-APPL-SN-704668	c 10	N71-12554 *
US-PATENT-APPL-SN-676957	c 32	N77-18307 *	US-PATENT-APPL-SN-690274	c 05	N85-19981 *	US-PATENT-APPL-SN-706013	c 33	N71-27862 *
US-PATENT-APPL-SN-676958	c 54	N76-22914 *	US-PATENT-APPL-SN-690284	c 76	N85-20906 *	US-PATENT-APPL-SN-706073	c 76	N79-11920 *
US-PATENT-APPL-SN-676958	c 52	N81-25661 *	US-PATENT-APPL-SN-690815	c 32	N77-24328 *	US-PATENT-APPL-SN-706424	c 27	N78-32256 *
US-PATENT-APPL-SN-67730	c 15	N73-13463 *	US-PATENT-APPL-SN-690816	c 37	N78-25426 *	US-PATENT-APPL-SN-706424	c 27	N80-10358 *
US-PATENT-APPL-SN-677351	c 35	N77-32455 *	US-PATENT-APPL-SN-690997	c 16	N71-24828 *	US-PATENT-APPL-SN-706424	c 27	N80-24438 *
US-PATENT-APPL-SN-677352	c 43	N78-10529 *	US-PATENT-APPL-SN-690998	c 30	N71-15990 *	US-PATENT-APPL-SN-706425	c 33	N78-10378 *
US-PATENT-APPL-SN-677353	c 52	N78-14773 *	US-PATENT-APPL-SN-691046	c 36	N77-25501 *	US-PATENT-APPL-SN-706564	c 14	N71-17587 *
US-PATENT-APPL-SN-677475	c 32	N71-26681 *	US-PATENT-APPL-SN-691256	c 35	N77-31465 *	US-PATENT-APPL-SN-706564	c 76	N85-30933 *
US-PATENT-APPL-SN-677476	c 14	N71-17586 *	US-PATENT-APPL-SN-691647	c 52	N82-11170 *	US-PATENT-APPL-SN-706565	c 76	N85-30932 *
US-PATENT-APPL-SN-677505	c 09	N71-13521 *	US-PATENT-APPL-SN-691735	c 09	N71-12520 *	US-PATENT-APPL-SN-706681	c 35	N85-21610 *
US-PATENT-APPL-SN-677506	c 16	N71-15567 *	US-PATENT-APPL-SN-691736	c 18	N71-16210 *	US-PATENT-APPL-SN-706682	c 24	N85-28976 *
US-PATENT-APPL-SN-677508	c 16	N71-15551 *	US-PATENT-APPL-SN-691737	c 07	N71-24742 *	US-PATENT-APPL-SN-707124	c 44	N77-22606 *
US-PATENT-APPL-SN-67815	c 28	N72-22771 *	US-PATENT-APPL-SN-691738	c 08	N71-18694 *	US-PATENT-APPL-SN-707125	c 39	N78-16387 *
US-PATENT-APPL-SN-678520	c 20	N78-24275 *	US-PATENT-APPL-SN-691739	c 32	N71-15974 *	US-PATENT-APPL-SN-707440	c 06	N73-30102 *
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US-PATENT-APPL-SN-679055	c 08	N71-24633 *	US-PATENT-APPL-SN-69209	c 15	N72-21463 *	US-PATENT-APPL-SN-708660	c 34	N78-27357 *
US-PATENT-APPL-SN-679862	c 20	N71-16340 *	US-PATENT-APPL-SN-692284	c 27	N78-14164 *	US-PATENT-APPL-SN-708771	c 26	N78-24333 *
US-PATENT-APPL-SN-679885	c 09	N71-12521 *	US-PATENT-APPL-SN-692331	c 10	N71-26326 *	US-PATENT-APPL-SN-708795	c 37	N77-28487 *
US-PATENT-APPL-SN-679980	c 44	N82-24642 *	US-PATENT-APPL-SN-692332	c 07	N71-11281 *	US-PATENT-APPL-SN-708796	c 36	N78-18410 *
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US-PATENT-APPL-SN-680015	c 52	N79-14750 *	US-PATENT-APPL-SN-692471	c 09	N71-12518 *	US-PATENT-APPL-SN-709255	c 37	N85-29288 *
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US-PATENT-APPL-SN-725719	c 15	N71-26243 *	#	US-PATENT-APPL-SN-745852	c 12	N71-17661 *	US-PATENT-APPL-SN-760819	c 14	N70-34820 *
US-PATENT-APPL-SN-726898	c 12	N71-17579 *	#	US-PATENT-APPL-SN-745973	c 36	N86-19596 *	US-PATENT-APPL-SN-760927	c 26	N71-25490 *
US-PATENT-APPL-SN-727034	c 35	N85-29216 *	#	US-PATENT-APPL-SN-745977	c 35	N86-20754 *	US-PATENT-APPL-SN-760928	c 15	N71-28582 *
US-PATENT-APPL-SN-727035	c 33	N85-30201 *	#	US-PATENT-APPL-SN-746160	c 37	N86-20797 *	US-PATENT-APPL-SN-761007	c 18	N71-26155 *
US-PATENT-APPL-SN-727444	c 31	N81-15154 *	#	US-PATENT-APPL-SN-746162	c 18	N86-20471 *	US-PATENT-APPL-SN-761233	c 18	N86-20470 *
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US-PATENT-APPL-SN-729299	c 03	N72-15986 *	#	US-PATENT-APPL-SN-747674	c 27	N80-26446 *	US-PATENT-APPL-SN-762936	c 31	N69-27499 *
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US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-776146	c 44	N79-17313 *	US-PATENT-APPL-SN-791268	c 33	N72-17947 *
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US-PATENT-APPL-SN-763744	c 10	N72-27246 *	US-PATENT-APPL-SN-777764	c 15	N71-27214 *	US-PATENT-APPL-SN-791693	c 05	N71-11203 *
US-PATENT-APPL-SN-763753	c 43	N78-14452 *	US-PATENT-APPL-SN-777765	c 15	N71-29018 *	US-PATENT-APPL-SN-791888	c 23	N71-24725 *
US-PATENT-APPL-SN-763868	c 15	N71-24679 *	US-PATENT-APPL-SN-777765	c 14	N73-28487 *	US-PATENT-APPL-SN-792067	c 24	N78-17150 *
US-PATENT-APPL-SN-763869	c 17	N71-16393 *	US-PATENT-APPL-SN-777766	c 31	N71-16221 *	US-PATENT-APPL-SN-792068	c 51	N79-10693 *
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US-PATENT-APPL-SN-764805	c 37	N86-20803 *	US-PATENT-APPL-SN-778195	c 24	N79-16915 *	US-PATENT-APPL-SN-793657	c 17	N72-28536 *
US-PATENT-APPL-SN-764812	c 10	N71-19468 *	US-PATENT-APPL-SN-77869	c 37	N79-21345 *	US-PATENT-APPL-SN-793770	c 25	N71-15562 *
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US-PATENT-APPL-SN-765165	c 32	N79-11264 *	US-PATENT-APPL-SN-779428	c 34	N78-25351 *	US-PATENT-APPL-SN-795182	c 07	N71-24840 *
US-PATENT-APPL-SN-765167	c 32	N79-10263 *	US-PATENT-APPL-SN-779429	c 08	N79-14108 *	US-PATENT-APPL-SN-795217	c 33	N71-25351 *
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US-PATENT-APPL-SN-765978	c 37	N86-19610 *	US-PATENT-APPL-SN-779847	c 15	N71-27091 *	US-PATENT-APPL-SN-796053	c 37	N86-19614 *
US-PATENT-APPL-SN-765979	c 89	N86-22549 *	US-PATENT-APPL-SN-779871	c 33	N79-20314 *	US-PATENT-APPL-SN-796256	c 52	N80-18691 *
US-PATENT-APPL-SN-765981	c 74	N86-20128 *	US-PATENT-APPL-SN-779883	c 27	N79-18052 *	US-PATENT-APPL-SN-796258	c 52	N82-22875 *
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US-PATENT-APPL-SN-766244	c 15	N71-26721 *	US-PATENT-APPL-SN-780065	c 12	N71-28741 *	US-PATENT-APPL-SN-796358	c 05	N72-11085 *
US-PATENT-APPL-SN-766245	c 14	N71-27215 *	US-PATENT-APPL-SN-780569	c 54	N78-31736 *	US-PATENT-APPL-SN-796360	c 15	N71-24696 *
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US-PATENT-APPL-SN-7668	c 15	N71-26611 *	US-PATENT-APPL-SN-780728	c 32	N78-31321 *	US-PATENT-APPL-SN-796405	c 14	N71-27185 *
US-PATENT-APPL-SN-766999	c 33	N80-23559 *	US-PATENT-APPL-SN-780729	c 33	N79-22373 *	US-PATENT-APPL-SN-796685	c 26	N72-28762 *
US-PATENT-APPL-SN-7669	c 31	N72-18859 *	US-PATENT-APPL-SN-780873	c 32	N81-27341 *	US-PATENT-APPL-SN-796690	c 07	N72-21119 *
US-PATENT-APPL-SN-767741	c 09	N72-27228 *	US-PATENT-APPL-SN-780874	c 35	N78-28411 *	US-PATENT-APPL-SN-796691	c 10	N71-26334 *
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US-PATENT-APPL-SN-767912	c 27	N79-14214 *	US-PATENT-APPL-SN-781812	c 36	N86-20780 *	US-PATENT-APPL-SN-797057	c 15	N70-22192 *
US-PATENT-APPL-SN-768336	c 15	N71-17648 *	US-PATENT-APPL-SN-781813	c 27	N86-21685 *	US-PATENT-APPL-SN-797058	c 05	N71-24738 *
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US-PATENT-APPL-SN-768473	c 14	N71-17657 *	US-PATENT-APPL-SN-782463	c 72	N79-13826 *	US-PATENT-APPL-SN-797210	c 28	N78-31255 *
US-PATENT-APPL-SN-768662	c 07	N73-25160 *	US-PATENT-APPL-SN-782464	c 32	N79-14267 *	US-PATENT-APPL-SN-797219	c 03	N71-33409 *
US-PATENT-APPL-SN-768671	c 27	N86-20565 *	US-PATENT-APPL-SN-782480	c 33	N78-32340 *	US-PATENT-APPL-SN-797794	c 07	N71-12396 *
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US-PATENT-APPL-SN-768942	c 46	N74-23068 *	US-PATENT-APPL-SN-782482	c 33	N79-11315 *	US-PATENT-APPL-SN-797796	c 28	N71-14058 *
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US-PATENT-APPL-SN-769148	c 52	N79-10724 *	US-PATENT-APPL-SN-782693	c 33	N79-10337 *	US-PATENT-APPL-SN-798976	c 52	N81-25661 *
US-PATENT-APPL-SN-769149	c 33	N78-32339 *	US-PATENT-APPL-SN-782955	c 07	N71-33108 *	US-PATENT-APPL-SN-799013	c 09	N71-28468 *
US-PATENT-APPL-SN-769592	c 15	N72-16330 *	US-PATENT-APPL-SN-782956	c 10	N71-25865 *	US-PATENT-APPL-SN-799023	c 37	N79-10421 *
US-PATENT-APPL-SN-769665	c 15	N72-11387 *	US-PATENT-APPL-SN-783374	c 15	N71-27147 *	US-PATENT-APPL-SN-799024	c 24	N78-17149 *
US-PATENT-APPL-SN-769788	c 07	N71-11300 *	US-PATENT-APPL-SN-783375	c 07	N71-24621 *	US-PATENT-APPL-SN-799025	c 32	N80-29539 *
US-PATENT-APPL-SN-770203	c 05	N71-11195 *	US-PATENT-APPL-SN-783377	c 05	N71-28619 *	US-PATENT-APPL-SN-799026	c 44	N79-11468 *
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US-PATENT-APPL-SN-770398	c 06	N71-27254 *	US-PATENT-APPL-SN-783886	c 37	N86-20807 *	US-PATENT-APPL-SN-800193	c 37	N86-20804 *
US-PATENT-APPL-SN-770398	c 06	N72-27144 *	US-PATENT-APPL-SN-783887	c 36	N86-20779 *	US-PATENT-APPL-SN-800204	c 06	N72-17094 *
US-PATENT-APPL-SN-770417	c 06	N73-33076 *	US-PATENT-APPL-SN-783888	c 37	N86-19613 *	US-PATENT-APPL-SN-800229	c 14	N73-32320 *
US-PATENT-APPL-SN-770425	c 06	N72-20121 *	US-PATENT-APPL-SN-783890	c 74	N86-20130 *	US-PATENT-APPL-SN-800229	c 74	N74-20008 *
US-PATENT-APPL-SN-770869	c 44	N78-25527 *	US-PATENT-APPL-SN-784055	c 15	N72-11390 *	US-PATENT-APPL-SN-800973	c 16	N71-24832 *
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US-PATENT-APPL-SN-771216	c 14	N72-17329 *	US-PATENT-APPL-SN-784544	c 15	N72-12408 *	US-PATENT-APPL-SN-801290	c 37	N80-26658 *
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US-PATENT-APPL-SN-771523	c 10	N71-18772 *	US-PATENT-APPL-SN-785257	c 44	N79-14526 *	US-PATENT-APPL-SN-801312	c 16	N71-15565 *
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US-PATENT-APPL-SN-77169	c 14	N72-21408 *	US-PATENT-APPL-SN-785595	c 10	N71-24861 *	US-PATENT-APPL-SN-801452	c 44	N79-11471 *
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US-PATENT-APPL-SN-771760	c 10	N71-25917 *	US-PATENT-APPL-SN-785613	c 05	N72-25119 *	US-PATENT-APPL-SN-802812	c 10	N72-22235 *
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US-PATENT-APPL-SN-771937	c 10	N71-24862 *	US-PATENT-APPL-SN-785620	c 21	N71-27324 *	US-PATENT-APPL-SN-802816	c 31	N71-16346 *
US-PATENT-APPL-SN-772006	c 17	N71-33408 *	US-PATENT-APPL-SN-785710	c 05	N71-24730 *	US-PATENT-APPL-SN-802818	c 07	N71-29065 *
US-PATENT-APPL-SN-772165	c 74	N79-13855 *	US-PATENT-APPL-SN-785780	c 18	N71-28729 *	US-PATENT-APPL-SN-802820	c 10	N71-13545 *
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US-PATENT-APPL-SN-772168	c 37	N79-20377 *	US-PATENT-APPL-SN-7867	c 14	N72-17324 *	US-PATENT-APPL-SN-802972	c 09	N71-26678 *
US-PATENT-APPL-SN-77220	c 14	N72-27409 *	US-PATENT-APPL-SN-7868	c 10	N72-17173 *	US-PATENT-APPL-SN-80368	c 09	N73-20231 *
US-PATENT-APPL-SN-77221	c 08	N72-25210 *	US-PATENT-APPL-SN-786913	c 27	N79-12221 *	US-PATENT-APPL-SN-80369	c 09	N72-22198 *
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US-PATENT-APPL-SN-77252	c 02	N70-37939 *	US-PATENT-APPL-SN-78717	c 05	N73-13114 *	US-PATENT-APPL-SN-803823	c 44	N79-11467 *
US-PATENT-APPL-SN-77256	c 15	N70-33323 *	US-PATENT-APPL-SN-787393	c 23	N71-26206 *	US-PATENT-APPL-SN-804035	c 35	N79-14348 *
US-PATENT-APPL-SN-773029	c 09	N71-24893 *	US-PATENT-APPL-SN-787410	c 15	N71-19213 *	US-PATENT-APPL-SN-804172	c 28	N71-26781 *
US-PATENT-APPL-SN-773072	c 10	N72-28241 *	US-PATENT-APPL-SN-78746	c 05	N74-10907 *	US-PATENT-APPL-SN-805011	c 54	N86-22114 *
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US-PATENT-APPL-SN-774384	c 32	N79-10262 *	US-PATENT-APPL-SN-788705	c 35	N78-24515 *	US-PATENT-APPL-SN-805549	c 35	N79-16246 *
US-PATENT-APPL-SN-774691	c 10	N72-31273 *	US-PATENT-APPL-SN-789043	c 10	N71-26531 *	US-PATENT-APPL-SN-806149	c 27	N71-16223 *
US-PATENT-APPL-SN-774733	c 14	N72-24477 *	US-PATENT-APPL-SN-789044	c 14	N72-20381 *	US-PATENT-APPL-SN-806226	c 14	N71-27407 *
US-PATENT-APPL-SN-775072	c 16	N71-24831 *	US-PATENT-APPL-SN-789045	c 15	N72-22489 *	US-PATENT-APPL-SN-806440	c 51	N79-10694 *
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US-PATENT-APPL-SN-775548	c 33	N86-20682 *	US-PATENT-APPL-SN-789278	c 15	N71-24694 *	US-PATENT-APPL-SN-807597	c 52	N80-16725 *
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US-PATENT-APPL-SN-775770	c 09	N72-22196 *	US-PATENT-APPL-SN-790420	c 09	N71-24595 *	US-PATENT-APPL-SN-807762	c 27	N78-31233 *
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US-PATENT-APPL-SN-809890	c 44	N79-17314 *	US-PATENT-APPL-SN-829390	c 44	N79-11469 *	US-PATENT-APPL-SN-848325	c 06	N70-11251 *
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US-PATENT-APPL-SN-865109	c 14	N71-28933 *	#	US-PATENT-APPL-SN-888362	c 33	N80-14330 *	#	US-PATENT-APPL-SN-923758	c 20	N80-10278 *	#
US-PATENT-APPL-SN-865274	c 09	N72-17155 *	#	US-PATENT-APPL-SN-888432	c 74	N81-17886 *	#	US-PATENT-APPL-SN-9251	c 03	N70-34646 *	#
US-PATENT-APPL-SN-865298	c 15	N72-11388 *	#	US-PATENT-APPL-SN-888434	c 51	N83-27569 *	#	US-PATENT-APPL-SN-928128	c 44	N80-18551 *	#
US-PATENT-APPL-SN-865329	c 15	N71-29132 *	#	US-PATENT-APPL-SN-889374	c 08	N72-25207 *	#	US-PATENT-APPL-SN-928129	c 35	N80-14371 *	#
US-PATENT-APPL-SN-86548	c 09	N72-21243 *	#	US-PATENT-APPL-SN-889375	c 10	N72-20222 *	#	US-PATENT-APPL-SN-928130	c 35	N80-20559 *	#
US-PATENT-APPL-SN-865811	c 09	N71-27053 *	#	US-PATENT-APPL-SN-889376	c 18	N71-26285 *	#	US-PATENT-APPL-SN-928131	c 09	N79-31228 *	#
US-PATENT-APPL-SN-865909	c 14	N72-11364 *	#	US-PATENT-APPL-SN-889387	c 09	N71-29035 *	#	US-PATENT-APPL-SN-928133	c 44	N80-18550 *	#
US-PATENT-APPL-SN-866442	c 25	N72-24753 *	#	US-PATENT-APPL-SN-889420	c 14	N72-25413 *	#	US-PATENT-APPL-SN-928137	c 52	N80-23969 *	#
US-PATENT-APPL-SN-867841	c 11	N72-22246 *	#	US-PATENT-APPL-SN-889422	c 09	N72-25259 *	#	US-PATENT-APPL-SN-929083	c 36	N80-16321 *	#
US-PATENT-APPL-SN-867842	c 23	N72-27728 *	#	US-PATENT-APPL-SN-889423	c 10	N72-22236 *	#	US-PATENT-APPL-SN-929084	c 37	N81-19455 *	#
US-PATENT-APPL-SN-867843	c 14	N71-26161 *	#	US-PATENT-APPL-SN-889437	c 15	N72-11392 *	#	US-PATENT-APPL-SN-929086	c 24	N81-13999 *	#
US-PATENT-APPL-SN-867851	c 15	N72-22484 *	#	US-PATENT-APPL-SN-889438	c 15	N72-18477 *	#	US-PATENT-APPL-SN-929087	c 35	N80-28687 *	#
US-PATENT-APPL-SN-868249	c 33	N80-18286 *	#	US-PATENT-APPL-SN-889478	c 08	N71-29138 *	#	US-PATENT-APPL-SN-929088	c 74	N80-24149 *	#
US-PATENT-APPL-SN-868445	c 14	N72-17323 *	#	US-PATENT-APPL-SN-889479	c 14	N72-17325 *	#	US-PATENT-APPL-SN-931090	c 37	N80-26658 *	#
US-PATENT-APPL-SN-868529	c 08	N72-22167 *	#	US-PATENT-APPL-SN-889551	c 21	N72-21624 *	#	US-PATENT-APPL-SN-931090	c 37	N82-19540 *	#
US-PATENT-APPL-SN-868530	c 05	N72-11084 *	#	US-PATENT-APPL-SN-889554	c 15	N72-20444 *	#	US-PATENT-APPL-SN-931217	c 37	N80-32716 *	#
US-PATENT-APPL-SN-868775	c 09	N72-25261 *	#	US-PATENT-APPL-SN-889555	c 09	N72-17154 *	#	US-PATENT-APPL-SN-931218	c 20	N80-18097 *	#
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US-PATENT-APPL-SN-870689	c 06	N72-25148 *	#	US-PATENT-APPL-SN-889583	c 15	N72-21464 *	#	US-PATENT-APPL-SN-935827	c 37	N80-18393 *	#
US-PATENT-APPL-SN-87222	c 05	N72-27103 *	#	US-PATENT-APPL-SN-889584	c 08	N72-31226 *	#	US-PATENT-APPL-SN-93714	c 44	N82-28780 *	#
US-PATENT-APPL-SN-872602	c 09	N72-22200 *	#	US-PATENT-APPL-SN-889670	c 39	N79-22537 *	#	US-PATENT-APPL-SN-938293	c 32	N80-32605 *	#
US-PATENT-APPL-SN-872664	c 08	N70-34675 *	#	US-PATENT-APPL-SN-889671	c 24	N81-14000 *	#	US-PATENT-APPL-SN-938297	c 25	N81-14015 *	#
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US-PATENT-APPL-SN-873260	c 33	N72-17948 *	#	US-PATENT-APPL-SN-891243	c 44	N79-25482 *	#	US-PATENT-APPL-SN-938300	c 37	N80-32654 *	#
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US-PATENT-APPL-SN-874673	c 27	N82-29454 *	#	US-PATENT-APPL-SN-891370	c 20	N79-20179 *	#	US-PATENT-APPL-SN-94049	c 14	N73-20476 *	#
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US-PATENT-APPL-SN-874675	c 27	N82-29455 *	#	US-PATENT-APPL-SN-891373	c 31	N80-18231 *	#	US-PATENT-APPL-SN-940689	c 35	N80-28686 *	#
US-PATENT-APPL-SN-874732	c 09	N71-29139 *	#	US-PATENT-APPL-SN-891872	c 25	N82-24312 *	#	US-PATENT-APPL-SN-940970	c 72	N80-27163 *	#
US-PATENT-APPL-SN-874733	c 15	N71-26635 *	#	US-PATENT-APPL-SN-89209	c 09	N72-25248 *	#	US-PATENT-APPL-SN-941711	c 24	N80-26388 *	#
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US-PATENT-APPL-SN-87550	c 06	N72-25146 *	#	US-PATENT-APPL-SN-89211	c 14	N73-12446 *	#	US-PATENT-APPL-SN-943086	c 37	N80-32717 *	#
US-PATENT-APPL-SN-87551	c 33	N73-16918 *	#	US-PATENT-APPL-SN-89212	c 08	N72-25208 *	#	US-PATENT-APPL-SN-943087	c 15	N78-32168 *	#
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US-PATENT-APPL-SN-87597	c 33	N74-22864 *	#	US-PATENT-APPL-SN-893383	c 31	N81-27323 *	#	US-PATENT-APPL-SN-943089	c 74	N80-21140 *	#
US-PATENT-APPL-SN-876299	c 44	N80-18552 *	#	US-PATENT-APPL-SN-893657	c 51	N80-27067 *	#	US-PATENT-APPL-SN-94347	c 05	N72-25122 *	#
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US-PATENT-APPL-SN-876438	c 52	N79-26772 *	#	US-PATENT-APPL-SN-893865	c 37	N81-24443 *	#	US-PATENT-APPL-SN-945040	c 37	N82-24492 *	#
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US-PATENT-APPL-SN-878539	c 35	N80-20560 *	#	US-PATENT-APPL-SN-899123	c 44	N79-14528 *	#	US-PATENT-APPL-SN-94952	c 14	N70-34158 *	#
US-PATENT-APPL-SN-878540	c 24	N82-26384 *	#	US-PATENT-APPL-SN-899828	c 32	N80-18252 *	#	US-PATENT-APPL-SN-949886	c 33	N80-18285 *	#
US-PATENT-APPL-SN-878541	c 33	N81-14220 *	#	US-PATENT-APPL-SN-900659	c 27	N81-17261 *	#	US-PATENT-APPL-SN-950876	c 37	N80-31790 *	#
US-PATENT-APPL-SN-878542	c 33	N79-28416 *	#	US-PATENT-APPL-SN-900841	c 32	N82-31583 *	#	US-PATENT-APPL-SN-950877	c 52	N81-25660 *	#
US-PATENT-APPL-SN-878730	c 08	N72-22164 *	#	US-PATENT-APPL-SN-900842	c 32	N79-24203 *	#	US-PATENT-APPL-SN-951422	c 51	N81-14605 *	#
US-PATENT-APPL-SN-878731	c 15	N71-26162 *	#	US-PATENT-APPL-SN-900843	c 44	N80-20810 *	#	US-PATENT-APPL-SN-951423	c 48	N80-18667 *	#
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US-PATENT-APPL-SN-880272	c 14	N71-27058 *	#	US-PATENT-APPL-SN-907421	c 37	N81-14318 *	#	US-PATENT-			

US-PATENT-APPL-SN-961831	c 33	N81-25299	* #	US-PATENT-CLASS-102-49	c 28	N70-41967	* #	US-PATENT-CLASS-106-84	c 24	N79-31347	* #
US-PATENT-APPL-SN-961832	c 37	N81-24442	* #	US-PATENT-CLASS-102-49	c 31	N71-10582	* #	US-PATENT-CLASS-106-88	c 18	N71-16124	* #
US-PATENT-APPL-SN-961833	c 37	N82-21587	* #	US-PATENT-CLASS-102-49	c 15	N71-13789	* #	US-PATENT-CLASS-108-136	c 09	N75-12968	* #
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US-PATENT-APPL-SN-965367	c 33	N81-14221	* #	US-PATENT-CLASS-102-50	c 31	N71-24750	* #	US-PATENT-CLASS-110-218	c 31	N81-15154	* #
US-PATENT-APPL-SN-965368	c 74	N81-17888	* #	US-PATENT-CLASS-102-56R	c 02	N81-14968	* #	US-PATENT-CLASS-110-229	c 31	N81-15154	* #
US-PATENT-APPL-SN-969755	c 05	N81-19087	* #	US-PATENT-CLASS-102-70.2A	c 28	N74-27425	* #	US-PATENT-CLASS-110-232	c 31	N81-15154	* #
US-PATENT-APPL-SN-969756	c 37	N81-14317	* #	US-PATENT-CLASS-102-70.2R	c 19	N74-15089	* #	US-PATENT-CLASS-110-234	c 25	N82-11144	* #
US-PATENT-APPL-SN-969757	c 24	N84-16262	* #	US-PATENT-CLASS-102-70.2	c 09	N71-18599	* #	US-PATENT-CLASS-110-245	c 25	N82-11144	* #
US-PATENT-APPL-SN-969759	c 25	N82-11144	* #	US-PATENT-CLASS-102-70.2R	c 28	N74-27425	* #	US-PATENT-CLASS-110-255	c 25	N82-11144	* #
US-PATENT-APPL-SN-969760	c 39	N81-25400	* #	US-PATENT-CLASS-102-70R	c 20	N78-24275	* #	US-PATENT-CLASS-110-262	c 25	N84-16276	* #
US-PATENT-APPL-SN-969761	c 32	N82-12297	* #	US-PATENT-CLASS-102-90	c 15	N74-27360	* #	US-PATENT-CLASS-110-263	c 25	N84-16276	* #
US-PATENT-APPL-SN-969762	c 33	N82-29539	* #	US-PATENT-CLASS-102-92.1	c 02	N81-14968	* #	US-PATENT-CLASS-110-265	c 25	N84-16276	* #
US-PATENT-APPL-SN-971112	c 21	N70-34539	* #	US-PATENT-CLASS-102-95	c 11	N73-32152	* #	US-PATENT-CLASS-110-266	c 25	N82-11144	* #
US-PATENT-APPL-SN-971473	c 23	N81-29160	* #	US-PATENT-CLASS-102-99	c 28	N77-10213	* #	US-PATENT-CLASS-110-343	c 31	N81-15154	* #
US-PATENT-APPL-SN-971474	c 20	N82-18314	* #	US-PATENT-CLASS-103.5R	c 04	N73-27052	* #	US-PATENT-CLASS-110-347	c 31	N81-15154	* #
US-PATENT-APPL-SN-971475	c 27	N81-24257	* #	US-PATENT-CLASS-103-1	c 26	N71-21824	* #	US-PATENT-CLASS-112-402	c 18	N71-26285	* #
US-PATENT-APPL-SN-971596	c 27	N80-32516	* #	US-PATENT-CLASS-103-37	c 28	N71-14058	* #	US-PATENT-CLASS-113-116	c 15	N71-15597	* #
US-PATENT-APPL-SN-972252	c 35	N81-33448	* #	US-PATENT-CLASS-103-48	c 15	N71-24042	* #	US-PATENT-CLASS-114-122	c 02	N73-26006	* #
US-PATENT-APPL-SN-97343	c 10	N72-27246	* #	US-PATENT-CLASS-104-DIG.4	c 44	N84-23019	* #	US-PATENT-CLASS-114-16.6	c 37	N76-22540	* #
US-PATENT-APPL-SN-974292	c 26	N80-23419	* #	US-PATENT-CLASS-104-138R	c 85	N74-34672	* #	US-PATENT-CLASS-114-66.5	c 12	N70-33305	* #
US-PATENT-APPL-SN-974471	c 32	N81-14185	* #	US-PATENT-CLASS-104-139	c 05	N71-28619	* #	US-PATENT-CLASS-115-103.5	c 51	N75-13502	* #
US-PATENT-APPL-SN-974472	c 37	N81-15363	* #	US-PATENT-CLASS-104-1	c 05	N71-28619	* #	US-PATENT-CLASS-116-114.5	c 35	N75-25122	* #
US-PATENT-APPL-SN-974473	c 60	N81-27814	* #	US-PATENT-CLASS-104-23FS	c 85	N74-34672	* #	US-PATENT-CLASS-116-114AH	c 14	N72-25411	* #
US-PATENT-APPL-SN-974474	c 25	N81-19242	* #	US-PATENT-CLASS-104-281	c 37	N85-20337	* #	US-PATENT-CLASS-116-114AH	c 35	N75-33367	* #
US-PATENT-APPL-SN-974475	c 33	N81-17349	* #	US-PATENT-CLASS-104-282	c 37	N83-32067	* #	US-PATENT-CLASS-116-117	c 14	N70-42074	* #
US-PATENT-APPL-SN-974476	c 52	N81-14613	* #	US-PATENT-CLASS-104-284	c 37	N85-20337	* #	US-PATENT-CLASS-117-104	c 18	N71-26100	* #
US-PATENT-APPL-SN-97472	c 14	N73-28487	* #	US-PATENT-CLASS-104-290	c 37	N83-32067	* #	US-PATENT-CLASS-117-105.2	c 37	N74-11301	* #
US-PATENT-APPL-SN-97829	c 06	N73-13129	* #	US-PATENT-CLASS-104-83	c 37	N82-21587	* #	US-PATENT-CLASS-117-105.2	c 24	N75-33181	* #
US-PATENT-APPL-SN-98517	c 09	N72-25250	* #	US-PATENT-CLASS-105-1A	c 37	N82-21587	* #	US-PATENT-CLASS-117-105.5	c 15	N73-32360	* #
US-PATENT-APPL-SN-98640	c 09	N72-25253	* #	US-PATENT-CLASS-105-161	c 43	N79-26439	* #	US-PATENT-CLASS-117-105	c 15	N73-32360	* #
US-PATENT-APPL-SN-98772	c 08	N73-12176	* #	US-PATENT-CLASS-105-171	c 37	N82-21587	* #	US-PATENT-CLASS-117-106A	c 70	N74-13436	* #
US-PATENT-APPL-SN-98773	c 15	N72-22486	* #	US-PATENT-CLASS-105-180	c 37	N82-21587	* #	US-PATENT-CLASS-117-106A	c 37	N75-15992	* #
US-PATENT-APPL-SN-98774	c 14	N73-19419	* #	US-PATENT-CLASS-105-2R	c 85	N82-33288	* #	US-PATENT-CLASS-117-106A	c 25	N75-26043	* #
US-PATENT-APPL-SN-98798	c 09	N73-13209	* #	US-PATENT-CLASS-105-216R	c 37	N82-21587	* #	US-PATENT-CLASS-117-106	c 33	N71-14032	* #
US-PATENT-APPL-SN-99174	c 14	N72-33377	* #	US-PATENT-CLASS-106-1.2	c 44	N79-31752	* #	US-PATENT-CLASS-117-107.2	c 25	N75-26043	* #
US-PATENT-APPL-SN-99175	c 09	N72-25258	* #	US-PATENT-CLASS-106-13	c 23	N75-14834	* #	US-PATENT-CLASS-117-107	c 15	N72-25447	* #
US-PATENT-APPL-SN-99198	c 31	N73-32749	* #	US-PATENT-CLASS-106-15FP	c 27	N74-27037	* #	US-PATENT-CLASS-117-107	c 76	N79-16678	* #
US-PATENT-APPL-SN-99201	c 15	N73-25512	* #	US-PATENT-CLASS-106-15FP	c 27	N76-24405	* #	US-PATENT-CLASS-117-119	c 18	N71-16105	* #
US-PATENT-APPL-SN-99201	c 37	N74-20063	* #	US-PATENT-CLASS-106-15FP	c 24	N78-15180	* #	US-PATENT-CLASS-117-119	c 76	N79-16678	* #
US-PATENT-APPL-SN-99524	c 06	N72-27144	* #	US-PATENT-CLASS-106-15R	c 23	N75-14834	* #	US-PATENT-CLASS-117-124C	c 15	N72-25452	* #
US-PATENT-APPL-SN-99901	c 37	N74-10474	* #	US-PATENT-CLASS-106-15	c 18	N71-14014	* #	US-PATENT-CLASS-117-124F	c 23	N75-14834	* #
US-PATENT-APPL-SN-99903	c 11	N73-12265	* #	US-PATENT-CLASS-106-15	c 18	N71-15699	* #	US-PATENT-CLASS-117-126GM	c 37	N75-26371	* #
US-PATENT-CLASS-179-146-R	c 05	N83-27975	* #	US-PATENT-CLASS-106-18.16	c 27	N82-16238	* #	US-PATENT-CLASS-117-126GR	c 27	N74-23125	* #
US-PATENT-CASE-179-179	c 05	N83-27975	* #	US-PATENT-CLASS-106-18.24	c 27	N82-16238	* #	US-PATENT-CLASS-117-126R	c 37	N75-26371	* #
US-PATENT-CASE-244-121	c 05	N83-19737	* #	US-PATENT-CLASS-106-197	c 25	N82-29370	* #	US-PATENT-CLASS-117-129	c 37	N74-21063	* #
US-PATENT-CASE-244-129.4	c 05	N83-19737	* #	US-PATENT-CLASS-106-1	c 44	N79-31752	* #	US-PATENT-CLASS-117-129	c 27	N75-27160	* #
US-PATENT-CASE-292-254	c 05	N83-19737	* #	US-PATENT-CLASS-106-209	c 05	N72-25120	* #	US-PATENT-CLASS-117-130R	c 15	N73-32360	* #
US-PATENT-CASE-356-129	c 36	N83-29680	* #	US-PATENT-CLASS-106-286	c 18	N72-22566	* #	US-PATENT-CLASS-117-132B	c 27	N74-23125	* #
US-PATENT-CASE-367-906	c 05	N83-27975	* #	US-PATENT-CLASS-106-287SB	c 23	N75-14834	* #	US-PATENT-CLASS-117-132	c 06	N72-25150	* #
US-PATENT-CASE-368-10	c 35	N83-29651	* #	US-PATENT-CLASS-106-288B	c 18	N72-22566	* #	US-PATENT-CLASS-117-135.5	c 23	N75-14834	* #
US-PATENT-CASE-368-118	c 35	N83-29651	* #	US-PATENT-CLASS-106-292	c 18	N72-17532	* #	US-PATENT-CLASS-117-138.8R	c 15	N73-32360	* #
US-PATENT-CASE-368-119	c 35	N83-29651	* #	US-PATENT-CLASS-106-292	c 27	N77-30237	* #	US-PATENT-CLASS-117-151	c 15	N73-32360	* #
US-PATENT-CASE-368-120	c 35	N83-29651	* #	US-PATENT-CLASS-106-296	c 18	N71-26772	* #	US-PATENT-CLASS-117-152	c 15	N72-25452	* #
US-PATENT-CASE-368-6	c 35	N83-29651	* #	US-PATENT-CLASS-106-296	c 27	N77-30237	* #	US-PATENT-CLASS-117-16R	c 15	N72-25452	* #
US-PATENT-CASE-368-9	c 35	N83-29651	* #	US-PATENT-CLASS-106-296	c 24	N79-14156	* #	US-PATENT-CLASS-117-160R	c 15	N73-32360	* #
US-PATENT-CLASS-165-27	c 34	N83-34221	* #	US-PATENT-CLASS-106-299	c 18	N72-17532	* #	US-PATENT-CLASS-117-161P	c 06	N73-27980	* #
US-PATENT-CLASS-361-90	c 33	N83-34190	* #	US-PATENT-CLASS-106-299	c 27	N77-30237	* #	US-PATENT-CLASS-117-161UA	c 25	N75-12087	* #
US-PATENT-CLASS-D12-76	c 05	N75-25914	* #	US-PATENT-CLASS-106-306	c 24	N76-24363	* #	US-PATENT-CLASS-117-161UN	c 06	N73-27980	* #
US-PATENT-CLASS-D71-1	c 05	N74-10907	* #	US-PATENT-CLASS-106-39.5	c 27	N78-19302	* #	US-PATENT-CLASS-117-161UN	c 27	N74-23125	* #
US-PATENT-CLASS-100-299	c 15	N72-20446	* #	US-PATENT-CLASS-106-39R	c 18	N73-14584	* #	US-PATENT-CLASS-117-161UN	c 25	N75-12087	* #
US-PATENT-CLASS-100-8	c 33	N74-17928	* #	US-PATENT-CLASS-106-39	c 26	N72-28762	* #	US-PATENT-CLASS-117-161UZ	c 25	N75-12087	* #
US-PATENT-CLASS-101-395	c 35	N84-22930	* #	US-PATENT-CLASS-106-40	c 18	N71-22998	* #	US-PATENT-CLASS-117-161	c 06	N72-25150	* #
US-PATENT-CLASS-101-407BP	c 37	N84-12491	* #	US-PATENT-CLASS-106-43	c 27	N78-17206	* #	US-PATENT-CLASS-117-2R	c 32	N74-27612	* #
US-PATENT-CLASS-102-101	c 28	N71-26779	* #	US-PATENT-CLASS-106-48	c 26	N81-25371	* #	US-PATENT-CLASS-117-200	c 09	N72-25259	* #
US-PATENT-CLASS-102-103	c 20	N78-32179	* #	US-PATENT-CLASS-106-48	c 27	N72-28762	* #	US-PATENT-CLASS-117-201	c 15	N69-21460	* #
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US-PATENT-CLASS-102-21.6	c 46	N79-22679	* #	US-PATENT-CLASS-106-52	c 27	N82-29451	* #	US-PATENT-CLASS-117-212	c 26	N72-28762	* #
US-PATENT-CLASS-102-28EB	c 28	N74-27425	* #	US-PATENT-CLASS-106-52	c 27	N82-29452	* #	US-PATENT-CLASS-117-217	c 15	N72-25447	* #
US-PATENT-CLASS-102-28R	c 28	N79-11231	* #	US-PATENT-CLASS-106-54	c 27	N82-29454	* #	US-PATENT-CLASS-117-217	c 26	N72-28762	* #
US-PATENT-CLASS-102-289	c 27	N82-24339	* #	US-PATENT-CLASS-106-54	c 27	N75-27160	* #	US-PATENT-CLASS-117-224	c 15	N69-39895	* #
US-PATENT-CLASS-102-34.4	c 07	N72-25171	* #	US-PATENT-CLASS-106-54	c 27	N76-22377	* #	US-PATENT-CLASS-117-228	c 06	N73-27980	* #
US-PATENT-CLASS-102-378	c 01	N83-35992	* #	US-PATENT-CLASS-106-54	c 27	N76-23426	* #	US-PATENT-CLASS-117-234	c 76	N79-16678	* #
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US-PATENT-CLASS-102-49.3	c 20	N77-17143	* #	US-PATENT-CLASS-106-54	c 27	N82-29452	* #	US-PATENT-CLASS-117-237	c 76	N79-16678	* #
US-PATENT-CLASS-102-49.5	c 31	N71-15687	* #	US-PATENT-CLASS-106-54	c 27	N82-29454	* #	US-PATENT-CLASS-117-239	c 76	N79-16678	* #
US-PATENT-CLASS-102-49.5	c 15	N71-22874	* #	US-PATENT-CLASS-106-55	c 18	N73-14584	* #	US-PATENT-CLASS-117-240	c 76	N79-16678	* #
US-PATENT-CLASS-102-49.5	c 31	N71-23008	* #	US-PATENT-CLASS-106-58	c 18	N73-14584	* #	US-PATENT-CLASS-117-33.3	c 70	N74-13436	* #
US-PATENT-CLASS-102-49.5	c 31	N73-14853	* #	US-PATENT-CLASS-106-63	c 18	N73-14584	* #	US-PATENT-CLASS-			

US-PATENT-CLASS-117-62	c 15	N72-25447 *	#	US-PATENT-CLASS-123-59E	c 37	N77-31497 *	#	US-PATENT-CLASS-128-DIG.9	c 51	N81-14605 *	#
US-PATENT-CLASS-117-62	c 15	N72-25452 *	#	US-PATENT-CLASS-123-78E	c 37	N83-36483 *	#	US-PATENT-CLASS-128-1.2	c 52	N82-22875 *	#
US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	#	US-PATENT-CLASS-123-89A	c 37	N76-18457 *	#	US-PATENT-CLASS-128-1A	c 05	N73-32012 *	#
US-PATENT-CLASS-117-66	c 15	N73-32360 *	#	US-PATENT-CLASS-124-11R	c 75	N76-17951 *	#	US-PATENT-CLASS-128-1A	c 54	N84-16803 *	#
US-PATENT-CLASS-117-69	c 18	N70-36400 *	#	US-PATENT-CLASS-124-1	c 75	N76-17951 *	#	US-PATENT-CLASS-128-1R	c 52	N77-25772 *	#
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US-PATENT-CLASS-117-6	c 27	N81-15104 *	#	US-PATENT-CLASS-125-13R	c 37	N85-21650 *	#	US-PATENT-CLASS-128-1R	c 52	N84-11744 *	#
US-PATENT-CLASS-117-72	c 35	N75-25122 *	#	US-PATENT-CLASS-125-15	c 37	N85-21650 *	#	US-PATENT-CLASS-128-142.2	c 54	N76-24900 *	#
US-PATENT-CLASS-117-8.5	c 24	N75-33181 *	#	US-PATENT-CLASS-125-1	c 46	N74-23069 *	#	US-PATENT-CLASS-128-142.5	c 05	N71-11190 *	#
US-PATENT-CLASS-117-93.1GO	c 25	N75-12087 *	#	US-PATENT-CLASS-125-20	c 31	N83-27058 *	#	US-PATENT-CLASS-128-142.5	c 05	N71-11203 *	#
US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *	#	US-PATENT-CLASS-125-21	c 37	N80-29703 *	#	US-PATENT-CLASS-128-142.5	c 05	N71-17599 *	#
US-PATENT-CLASS-117-93.3	c 15	N72-25452 *	#	US-PATENT-CLASS-125-23R	c 76	N80-18951 *	#	US-PATENT-CLASS-128-142.5	c 05	N72-20096 *	#
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US-PATENT-CLASS-117-95	c 24	N74-19769 *	#	US-PATENT-CLASS-125-3	c 46	N74-23069 *	#	US-PATENT-CLASS-128-142.7	c 54	N78-32721 *	#
US-PATENT-CLASS-117-95	c 36	N75-15029 *	#	US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *	#	US-PATENT-CLASS-128-142R	c 54	N80-10799 *	#
US-PATENT-CLASS-117-97	c 36	N75-15029 *	#	US-PATENT-CLASS-126-263	c 44	N77-32581 *	#	US-PATENT-CLASS-128-145.8	c 54	N75-27761 *	#
US-PATENT-CLASS-118-11	c 15	N71-17647 *	#	US-PATENT-CLASS-126-263	c 44	N78-17460 *	#	US-PATENT-CLASS-128-15R	c 54	N84-16803 *	#
US-PATENT-CLASS-118-300	c 71	N84-16940 *	#	US-PATENT-CLASS-126-263	c 44	N80-20808 *	#	US-PATENT-CLASS-128-191R	c 25	N74-12813 *	#
US-PATENT-CLASS-118-308	c 17	N71-24911 *	#	US-PATENT-CLASS-126-263	c 35	N85-29214 *	#	US-PATENT-CLASS-128-191R	c 54	N80-10799 *	#
US-PATENT-CLASS-118-313	c 51	N77-27677 *	#	US-PATENT-CLASS-126-270	c 09	N70-40234 *	#	US-PATENT-CLASS-128-1	c 05	N70-41819 *	#
US-PATENT-CLASS-118-320	c 37	N82-24492 *	#	US-PATENT-CLASS-126-270	c 03	N70-41580 *	#	US-PATENT-CLASS-128-1	c 05	N71-20268 *	#
US-PATENT-CLASS-118-423	c 37	N82-12441 *	#	US-PATENT-CLASS-126-270	c 34	N74-23039 *	#	US-PATENT-CLASS-128-2.05A	c 52	N74-26626 *	#
US-PATENT-CLASS-118-43	c 25	N75-29192 *	#	US-PATENT-CLASS-126-270	c 44	N76-14595 *	#	US-PATENT-CLASS-128-2.05A	c 54	N75-13531 *	#
US-PATENT-CLASS-118-48	c 25	N75-26043 *	#	US-PATENT-CLASS-126-270	c 44	N76-23675 *	#	US-PATENT-CLASS-128-2.05E	c 52	N74-27566 *	#
US-PATENT-CLASS-118-49.1	c 15	N72-32487 *	#	US-PATENT-CLASS-126-270	c 44	N76-24696 *	#	US-PATENT-CLASS-128-2.05E	c 52	N76-29896 *	#
US-PATENT-CLASS-118-49.1	c 31	N75-12161 *	#	US-PATENT-CLASS-126-270	c 35	N77-20401 *	#	US-PATENT-CLASS-128-2.05F	c 14	N73-32326 *	#
US-PATENT-CLASS-118-49.1	c 25	N75-26043 *	#	US-PATENT-CLASS-126-270	c 44	N77-32582 *	#	US-PATENT-CLASS-128-2.05P	c 54	N75-13531 *	#
US-PATENT-CLASS-118-49.5	c 09	N71-26701 *	#	US-PATENT-CLASS-126-270	c 44	N78-15560 *	#	US-PATENT-CLASS-128-2.05R	c 05	N73-27941 *	#
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US-PATENT-CLASS-118-50.1	c 71	N84-16940 *	#	US-PATENT-CLASS-126-270	c 44	N78-31526 *	#	US-PATENT-CLASS-128-2.05R	c 52	N79-10724 *	#
US-PATENT-CLASS-118-50.1	c 36	N84-22944 *	#	US-PATENT-CLASS-126-270	c 44	N79-11471 *	#	US-PATENT-CLASS-128-2.05S	c 52	N74-26626 *	#
US-PATENT-CLASS-118-500	c 37	N78-17383 *	#	US-PATENT-CLASS-126-270	c 44	N79-14526 *	#	US-PATENT-CLASS-128-2.05T	c 52	N74-12778 *	#
US-PATENT-CLASS-118-500	c 37	N82-12441 *	#	US-PATENT-CLASS-126-270	c 44	N79-23481 *	#	US-PATENT-CLASS-128-2.05V	c 35	N76-24525 *	#
US-PATENT-CLASS-118-500	c 37	N82-24492 *	#	US-PATENT-CLASS-126-270	c 44	N79-24432 *	#	US-PATENT-CLASS-128-2.05Z	c 54	N75-27760 *	#
US-PATENT-CLASS-118-500	c 71	N84-16940 *	#	US-PATENT-CLASS-126-271	c 44	N75-32581 *	#	US-PATENT-CLASS-128-2.05Z	c 52	N79-18580 *	#
US-PATENT-CLASS-118-503	c 37	N82-24492 *	#	US-PATENT-CLASS-126-271	c 44	N76-14602 *	#	US-PATENT-CLASS-128-2.05	c 05	N70-41329 *	#
US-PATENT-CLASS-118-505	c 37	N82-24492 *	#	US-PATENT-CLASS-126-271	c 44	N76-22657 *	#	US-PATENT-CLASS-128-2.05	c 04	N71-23185 *	#
US-PATENT-CLASS-118-50	c 37	N78-17383 *	#	US-PATENT-CLASS-126-271	c 44	N76-24696 *	#	US-PATENT-CLASS-128-2.05	c 05	N71-27334 *	#
US-PATENT-CLASS-118-50	c 37	N81-33482 *	#	US-PATENT-CLASS-126-271	c 35	N77-20401 *	#	US-PATENT-CLASS-128-2.06B	c 05	N75-24716 *	#
US-PATENT-CLASS-118-50	c 71	N84-16940 *	#	US-PATENT-CLASS-126-271	c 44	N77-32582 *	#	US-PATENT-CLASS-128-2.06E	c 52	N76-29896 *	#
US-PATENT-CLASS-118-52	c 37	N81-33482 *	#	US-PATENT-CLASS-126-271	c 44	N78-10554 *	#	US-PATENT-CLASS-128-2.06F	c 52	N74-12778 *	#
US-PATENT-CLASS-118-57	c 71	N84-16940 *	#	US-PATENT-CLASS-126-271	c 44	N78-17460 *	#	US-PATENT-CLASS-128-2.06R	c 05	N73-27941 *	#
US-PATENT-CLASS-118-624	c 36	N84-22944 *	#	US-PATENT-CLASS-126-271	c 44	N78-31526 *	#	US-PATENT-CLASS-128-2.06R	c 52	N76-14757 *	#
US-PATENT-CLASS-118-62	c 71	N84-16940 *	#	US-PATENT-CLASS-126-271	c 44	N78-31526 *	#	US-PATENT-CLASS-128-2.06	c 05	N69-21925 *	#
US-PATENT-CLASS-118-641	c 36	N84-22944 *	#	US-PATENT-CLASS-126-271	c 44	N79-11471 *	#	US-PATENT-CLASS-128-2.06	c 05	N71-22896 *	#
US-PATENT-CLASS-118-6	c 51	N77-27677 *	#	US-PATENT-CLASS-126-271	c 44	N79-14526 *	#	US-PATENT-CLASS-128-2.06	c 09	N71-24916 *	#
US-PATENT-CLASS-118-7	c 51	N77-27677 *	#	US-PATENT-CLASS-126-271	c 44	N79-14529 *	#	US-PATENT-CLASS-128-2.06	c 05	N71-26293 *	#
US-PATENT-CLASS-118-9	c 51	N77-27677 *	#	US-PATENT-CLASS-126-271	c 44	N79-18443 *	#	US-PATENT-CLASS-128-2.07	c 05	N73-32015 *	#
US-PATENT-CLASS-119-15	c 11	N71-22875 *	#	US-PATENT-CLASS-126-271	c 44	N79-23481 *	#	US-PATENT-CLASS-128-2.07	c 52	N74-20728 *	#
US-PATENT-CLASS-119-17	c 51	N81-32829 *	#	US-PATENT-CLASS-126-271	c 44	N79-24433 *	#	US-PATENT-CLASS-128-2.08	c 05	N69-21473 *	#
US-PATENT-CLASS-119-18	c 51	N81-32829 *	#	US-PATENT-CLASS-126-400	c 44	N78-15560 *	#	US-PATENT-CLASS-128-2.08	c 05	N73-32015 *	#
US-PATENT-CLASS-119-29	c 51	N78-27733 *	#	US-PATENT-CLASS-126-400	c 44	N79-24433 *	#	US-PATENT-CLASS-128-2.08	c 52	N74-20728 *	#
US-PATENT-CLASS-119-51.11	c 35	N78-19466 *	#	US-PATENT-CLASS-126-400	c 44	N85-30474 *	#	US-PATENT-CLASS-128-2.1A	c 09	N72-17153 *	#
US-PATENT-CLASS-119-51.13	c 51	N74-15778 *	#	US-PATENT-CLASS-126-415	c 44	N84-34792 *	#	US-PATENT-CLASS-128-2.1A	c 09	N72-22202 *	#
US-PATENT-CLASS-119-51.5	c 51	N74-15778 *	#	US-PATENT-CLASS-126-415	c 44	N85-30474 *	#	US-PATENT-CLASS-128-2.1A	c 52	N74-26625 *	#
US-PATENT-CLASS-119-51R	c 51	N74-15778 *	#	US-PATENT-CLASS-126-417	c 44	N80-16452 *	#	US-PATENT-CLASS-128-2.1A	c 52	N76-14757 *	#
US-PATENT-CLASS-119-52AF	c 51	N74-15778 *	#	US-PATENT-CLASS-126-417	c 34	N84-22903 *	#	US-PATENT-CLASS-128-2.1A	c 52	N76-29894 *	#
US-PATENT-CLASS-119-54	c 51	N74-15778 *	#	US-PATENT-CLASS-126-418	c 44	N84-28204 *	#	US-PATENT-CLASS-128-2.1A	c 52	N79-18580 *	#
US-PATENT-CLASS-119-72.5	c 35	N78-19466 *	#	US-PATENT-CLASS-126-419	c 44	N80-20810 *	#	US-PATENT-CLASS-128-2.1E	c 05	N72-27103 *	#
US-PATENT-CLASS-119-96	c 05	N71-28619 *	#	US-PATENT-CLASS-126-419	c 44	N81-17518 *	#	US-PATENT-CLASS-128-2.1E	c 35	N76-24525 *	#
US-PATENT-CLASS-121-38	c 15	N70-35409 *	#	US-PATENT-CLASS-126-419	c 44	N84-28203 *	#	US-PATENT-CLASS-128-2.1E	c 52	N77-28717 *	#
US-PATENT-CLASS-121-38	c 02	N71-29128 *	#	US-PATENT-CLASS-126-419	c 44	N85-30474 *	#	US-PATENT-CLASS-128-2.1R	c 05	N73-26072 *	#
US-PATENT-CLASS-122-32	c 33	N72-20915 *	#	US-PATENT-CLASS-126-422	c 44	N82-18686 *	#	US-PATENT-CLASS-128-2.1Z	c 35	N76-24525 *	#
US-PATENT-CLASS-122-366	c 34	N85-29180 *	#	US-PATENT-CLASS-126-429	c 44	N82-18686 *	#	US-PATENT-CLASS-128-2.1	c 05	N71-11193 *	#
US-PATENT-CLASS-122-40	c 25	N82-11144 *	#	US-PATENT-CLASS-126-430	c 44	N82-18686 *	#	US-PATENT-CLASS-128-2.1	c 05	N71-12346 *	#
US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *	#	US-PATENT-CLASS-126-434	c 44	N80-20810 *	#	US-PATENT-CLASS-128-2.1	c 05	N71-24729 *	#
US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *	#	US-PATENT-CLASS-126-437	c 44	N80-20810 *	#	US-PATENT-CLASS-128-2.1	c 09	N71-26002 *	#
US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *	#	US-PATENT-CLASS-126-438	c 44	N80-14473 *	#	US-PATENT-CLASS-128-2.1	c 05	N72-25120 *	#
US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *	#	US-PATENT-CLASS-126-438	c 44	N82-16475 *	#	US-PATENT-CLASS-128-2F	c 54	N76-14804 *	#
US-PATENT-CLASS-123-1A	c 44	N76-29700 *	#	US-PATENT-CLASS-126-438	c 44	N84-28203 *	#	US-PATENT-CLASS-128-2H	c 52	N76-14757 *	#
US-PATENT-CLASS-123-1A	c 44	N78-33526 *	#	US-PATENT-CLASS-126-438	c 44	N84-28204 *	#	US-PATENT-CLASS-128-2H	c 52	N76-29894 *	#
US-PATENT-CLASS-123-102	c 11	N72-20244 *	#	US-PATENT-CLASS-126-440	c 44	N84-28204 *	#	US-PATENT-CLASS-128-2H	c 52	N77-10780 *	#
US-PATENT-CLASS-123-119A	c 37	N77-31497 *	#	US-PATENT-CLASS-126-442	c 44	N80-14473 *	#	US-PATENT-CLASS-128-2H	c 52	N77-14736 *	#
US-PATENT-CLASS-123-119E	c 37	N76-18457 *	#	US-PATENT-CLASS-126-451	c 44	N84-28203 *	#	US-PATENT-CLASS-128-2N	c 05	N72-25122 *	#
US-PATENT-CLASS-123-120	c 37	N76-18457 *	#	US-PATENT-CLASS-126-900	c 44	N85-30474 *	#	US-PATENT-CLASS-128-2N	c 05	N73-13114 *	#
US-PATENT-CLASS-123-121	c 37	N76-18457 *	#	US-PATENT-CLASS-126-901	c 44	N80-16452 *	#	US-PATENT-CLASS-128-2P	c 52	N76-29894 *	#
US-PATENT-CLASS-123-122AB	c 28	N72-22772 *	#	US-PATENT-CLASS-126-901	c 44	N83-34449 *	#	US-PATENT-CLASS-128-2R	c 09	N72-22202 *	#
US-PATENT-CLASS-123-122AB	c 37	N77-31497 *	#	US-PATENT-CLASS-126-91A	c 25	N79-11151 *	#	US-PATENT-CLASS-128-2R	c 52	N79-12694 *	#
US-PATENT-CLASS-123-122E	c 07	N77-23106 *	#	US-PATENT-CLASS-128-2.06E	c 05	N75-24716 *	#	US-PATENT-CLASS-128-2S	c 52	N74-10975 *	#
US-PATENT-CLASS-123-122E	c 37	N78-10467 *	#	US-PATENT-CLASS-128-2.07	c 52	N79-21750 *	#	US-PATENT-CLASS-128-2S	c 52	N74-27864 *	#
US-PATENT-CLASS-123-148CB	c 33	N77-28385 *	#	US-PATENT-CLASS-128-DIG.12	c 37	N77-28487 *	#	US-PATENT-CLASS-128-2S	c 33	N75-31329 *	#
US-PATENT-CLASS-123-148CB	c 37	N79-11405 *	#	US-PATENT-CLASS-128-DIG.12	c 51	N81-14605 *	#	US-PATENT-CLASS-128-2S	c 33	N76-19338 *	#
US-PATENT-CLASS-123-148E	c 33	N77-28385 *	#	US-PATENT-CLASS-128-DIG.13	c 52	N83-27577 *	#	US-PATENT-CLASS-128-2S	c 52	N76-29895 *	#
US-PATENT-CLASS-123-148E	c 37	N79-11405 *	#	US-PATENT-CLASS-128-DIG.16	c 51	N81-14605 *	#	US-PATENT-CLASS-128-2S	c 52	N76-29896 *	#
US-PATENT-CLASS-123-179R	c 28	N80-10374 *	#	US-PATENT-CLASS-128-DIG.20	c 52	N76-19785 *	#	US-PATENT-CLASS-128-2V	c 52	N74-20726 *	#
US-PATENT-CLASS-123-197R	c 37	N83-36483 *	#	US-PATENT-CLASS-128-DIG.20	c 37	N81-17433 *	#	US-PATENT-CLASS-128-2V	c 35	N75-12271 *	#
US-PATENT-CLASS-123-37	c 37	N77-31497 *	#	US-PATENT-CLASS-128-DIG.25	c 52	N81-25660 *	#	US-PATENT-CLASS-128-2V	c 54	N75-27760 *	#
US-PATENT-CLASS											

US-PATENT-CLASS-128-214D	c 52	N79-14749 *	#	US-PATENT-CLASS-13-24	c 12	N79-26075 *	#	US-PATENT-CLASS-136-30	c 44	N76-29699 *	#
US-PATENT-CLASS-128-214E	c 52	N74-22771 *	#	US-PATENT-CLASS-13-26	c 33	N71-15625 *	#	US-PATENT-CLASS-136-36	c 44	N74-19692 *	#
US-PATENT-CLASS-128-214F	c 37	N77-28487 *	#	US-PATENT-CLASS-13-26	c 14	N71-23267 *	#	US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	#
US-PATENT-CLASS-128-230	c 52	N75-33640 *	#	US-PATENT-CLASS-13-31	c 11	N72-23215 *	#	US-PATENT-CLASS-136-6	c 03	N71-26084 *	#
US-PATENT-CLASS-128-236	c 51	N81-14605 *	#	US-PATENT-CLASS-13-31	c 31	N74-27900 *	#	US-PATENT-CLASS-136-6	c 03	N72-15986 *	#
US-PATENT-CLASS-128-24-A	c 52	N84-34913 *	#	US-PATENT-CLASS-13-35	c 33	N71-24145 *	#	US-PATENT-CLASS-136-6	c 44	N82-24641 *	#
US-PATENT-CLASS-128-24A	c 05	N73-27062 *	#	US-PATENT-CLASS-134-137	c 37	N82-12441 *	#	US-PATENT-CLASS-136-6	c 44	N82-24642 *	#
US-PATENT-CLASS-128-24A	c 54	N75-27760 *	#	US-PATENT-CLASS-134-17	c 43	N81-26509 *	#	US-PATENT-CLASS-136-6	c 44	N82-24643 *	#
US-PATENT-CLASS-128-24	c 05	N71-24738 *	#	US-PATENT-CLASS-134-21	c 37	N76-18456 *	#	US-PATENT-CLASS-136-6	c 44	N82-24644 *	#
US-PATENT-CLASS-128-25R	c 37	N74-18127 *	#	US-PATENT-CLASS-134-37	c 37	N76-18456 *	#	US-PATENT-CLASS-136-79	c 03	N72-20032 *	#
US-PATENT-CLASS-128-25	c 05	N71-24738 *	#	US-PATENT-CLASS-134-37	c 37	N85-21652 *	#	US-PATENT-CLASS-136-81	c 03	N72-20032 *	#
US-PATENT-CLASS-128-26	c 05	N76-19785 *	#	US-PATENT-CLASS-135-1	c 32	N70-36536 *	#	US-PATENT-CLASS-136-83R	c 03	N72-20034 *	#
US-PATENT-CLASS-128-272	c 15	N71-24835 *	#	US-PATENT-CLASS-136-100R	c 03	N72-20034 *	#	US-PATENT-CLASS-136-83R	c 44	N76-18641 *	#
US-PATENT-CLASS-128-272	c 52	N79-14749 *	#	US-PATENT-CLASS-136-114	c 44	N76-14601 *	#	US-PATENT-CLASS-136-83	c 03	N71-28579 *	#
US-PATENT-CLASS-128-275	c 15	N71-24835 *	#	US-PATENT-CLASS-136-132	c 03	N71-11053 *	#	US-PATENT-CLASS-136-86A	c 44	N76-27664 *	#
US-PATENT-CLASS-128-275	c 52	N81-29763 *	#	US-PATENT-CLASS-136-132	c 03	N71-22974 *	#	US-PATENT-CLASS-136-86S	c 44	N76-18641 *	#
US-PATENT-CLASS-128-276	c 52	N80-14684 *	#	US-PATENT-CLASS-136-133	c 15	N69-24320 *	#	US-PATENT-CLASS-136-86	c 03	N71-11052 *	#
US-PATENT-CLASS-128-276	c 52	N80-18690 *	#	US-PATENT-CLASS-136-133	c 03	N71-23006 *	#	US-PATENT-CLASS-136-86	c 03	N71-20904 *	#
US-PATENT-CLASS-128-280	c 24	N82-29362 *	#	US-PATENT-CLASS-136-133	c 03	N72-15986 *	#	US-PATENT-CLASS-136-86	c 15	N71-23022 *	#
US-PATENT-CLASS-128-283	c 05	N69-23192 *	#	US-PATENT-CLASS-136-135	c 03	N72-15986 *	#	US-PATENT-CLASS-136-86	c 03	N71-29044 *	#
US-PATENT-CLASS-128-283	c 24	N82-29362 *	#	US-PATENT-CLASS-136-143	c 44	N76-29699 *	#	US-PATENT-CLASS-136-89AC	c 44	N77-31601 *	#
US-PATENT-CLASS-128-284	c 24	N82-29362 *	#	US-PATENT-CLASS-136-146	c 03	N69-21337 *	#	US-PATENT-CLASS-136-89CA	c 44	N79-25482 *	#
US-PATENT-CLASS-128-285	c 24	N82-29362 *	#	US-PATENT-CLASS-136-146	c 24	N76-14204 *	#	US-PATENT-CLASS-136-89CC	c 44	N78-25527 *	#
US-PATENT-CLASS-128-288	c 24	N82-29362 *	#	US-PATENT-CLASS-136-148	c 24	N76-14204 *	#	US-PATENT-CLASS-136-89CC	c 44	N78-25529 *	#
US-PATENT-CLASS-128-291	c 24	N82-29362 *	#	US-PATENT-CLASS-136-148	c 44	N82-24645 *	#	US-PATENT-CLASS-136-89CC	c 44	N79-11467 *	#
US-PATENT-CLASS-128-295	c 05	N72-22093 *	#	US-PATENT-CLASS-136-162	c 44	N76-14601 *	#	US-PATENT-CLASS-136-89CC	c 44	N79-17314 *	#
US-PATENT-CLASS-128-295	c 52	N81-24711 *	#	US-PATENT-CLASS-136-166	c 03	N71-23336 *	#	US-PATENT-CLASS-136-89CC	c 44	N79-25482 *	#
US-PATENT-CLASS-128-295	c 52	N81-28740 *	#	US-PATENT-CLASS-136-166	c 03	N72-20032 *	#	US-PATENT-CLASS-136-89CC	c 44	N79-31752 *	#
US-PATENT-CLASS-128-296	c 24	N82-29362 *	#	US-PATENT-CLASS-136-170	c 03	N71-11051 *	#	US-PATENT-CLASS-136-89H	c 44	N78-25528 *	#
US-PATENT-CLASS-128-29	c 05	N70-39922 *	#	US-PATENT-CLASS-136-175	c 03	N72-20034 *	#	US-PATENT-CLASS-136-89H	c 44	N78-25529 *	#
US-PATENT-CLASS-128-2	c 05	N73-27062 *	#	US-PATENT-CLASS-136-179	c 03	N70-41864 *	#	US-PATENT-CLASS-136-89PC	c 44	N79-25482 *	#
US-PATENT-CLASS-128-303B	c 52	N83-25346 *	#	US-PATENT-CLASS-136-182	c 03	N71-10728 *	#	US-PATENT-CLASS-136-89PC	c 44	N79-31753 *	#
US-PATENT-CLASS-128-303R	c 52	N77-28716 *	#	US-PATENT-CLASS-136-182	c 03	N71-20407 *	#	US-PATENT-CLASS-136-89P	c 44	N77-31601 *	#
US-PATENT-CLASS-128-305	c 05	N73-27062 *	#	US-PATENT-CLASS-136-182	c 03	N71-20491 *	#	US-PATENT-CLASS-136-89P	c 44	N78-25528 *	#
US-PATENT-CLASS-128-305	c 52	N75-33640 *	#	US-PATENT-CLASS-136-182	c 44	N74-27519 *	#	US-PATENT-CLASS-136-89P	c 44	N78-25529 *	#
US-PATENT-CLASS-128-305	c 52	N78-14773 *	#	US-PATENT-CLASS-136-182	c 44	N76-14601 *	#	US-PATENT-CLASS-136-89P	c 44	N78-27515 *	#
US-PATENT-CLASS-128-325	c 52	N84-28388 *	#	US-PATENT-CLASS-136-202	c 09	N72-12136 *	#	US-PATENT-CLASS-136-89P	c 44	N79-17314 *	#
US-PATENT-CLASS-128-327	c 52	N82-11770 *	#	US-PATENT-CLASS-136-202	c 03	N72-26031 *	#	US-PATENT-CLASS-136-89P	c 44	N80-14474 *	#
US-PATENT-CLASS-128-328	c 52	N84-34913 *	#	US-PATENT-CLASS-136-202	c 44	N76-16612 *	#	US-PATENT-CLASS-136-89SG	c 44	N78-24609 *	#
US-PATENT-CLASS-128-329R	c 52	N79-27836 *	#	US-PATENT-CLASS-136-202	c 35	N77-32454 *	#	US-PATENT-CLASS-136-89SG	c 44	N80-24741 *	#
US-PATENT-CLASS-128-346	c 52	N81-25660 *	#	US-PATENT-CLASS-136-202	c 35	N79-14346 *	#	US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *	#
US-PATENT-CLASS-128-346	c 52	N84-11744 *	#	US-PATENT-CLASS-136-206	c 03	N72-11062 *	#	US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *	#
US-PATENT-CLASS-128-346	c 52	N84-28388 *	#	US-PATENT-CLASS-136-206	c 09	N72-12136 *	#	US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *	#
US-PATENT-CLASS-128-348	c 52	N80-16725 *	#	US-PATENT-CLASS-136-206	c 44	N76-14595 *	#	US-PATENT-CLASS-136-89SJ	c 44	N79-25482 *	#
US-PATENT-CLASS-128-379	c 52	N77-14736 *	#	US-PATENT-CLASS-136-206	c 44	N76-31666 *	#	US-PATENT-CLASS-136-89	c 03	N69-24267 *	#
US-PATENT-CLASS-128-38	c 54	N84-16803 *	#	US-PATENT-CLASS-136-20	c 44	N74-19693 *	#	US-PATENT-CLASS-136-89	c 03	N71-11049 *	#
US-PATENT-CLASS-128-400	c 52	N77-14736 *	#	US-PATENT-CLASS-136-210	c 44	N76-16612 *	#	US-PATENT-CLASS-136-89	c 03	N71-11050 *	#
US-PATENT-CLASS-128-402	c 05	N72-20096 *	#	US-PATENT-CLASS-136-211	c 35	N76-15434 *	#	US-PATENT-CLASS-136-89	c 03	N71-11056 *	#
US-PATENT-CLASS-128-402	c 52	N77-14736 *	#	US-PATENT-CLASS-136-212	c 35	N76-15434 *	#	US-PATENT-CLASS-136-89	c 03	N71-18698 *	#
US-PATENT-CLASS-128-410	c 52	N77-28717 *	#	US-PATENT-CLASS-136-213	c 14	N69-27459 *	#	US-PATENT-CLASS-136-89	c 03	N71-19545 *	#
US-PATENT-CLASS-128-417	c 05	N72-25120 *	#	US-PATENT-CLASS-136-213	c 34	N74-27861 *	#	US-PATENT-CLASS-136-89	c 03	N71-20492 *	#
US-PATENT-CLASS-128-417	c 05	N72-27103 *	#	US-PATENT-CLASS-136-224	c 14	N73-12447 *	#	US-PATENT-CLASS-136-89	c 03	N71-20895 *	#
US-PATENT-CLASS-128-418	c 52	N76-29896 *	#	US-PATENT-CLASS-136-225	c 14	N73-24472 *	#	US-PATENT-CLASS-136-89	c 26	N71-23043 *	#
US-PATENT-CLASS-128-418	c 52	N77-14738 *	#	US-PATENT-CLASS-136-225	c 35	N76-15434 *	#	US-PATENT-CLASS-136-89	c 03	N71-23187 *	#
US-PATENT-CLASS-128-419P	c 52	N76-29896 *	#	US-PATENT-CLASS-136-225	c 44	N85-21768 *	#	US-PATENT-CLASS-136-89	c 03	N71-23449 *	#
US-PATENT-CLASS-128-421	c 52	N82-29863 *	#	US-PATENT-CLASS-136-227	c 09	N72-12136 *	#	US-PATENT-CLASS-136-89	c 03	N71-33409 *	#
US-PATENT-CLASS-128-422	c 52	N82-33996 *	#	US-PATENT-CLASS-136-228	c 33	N71-15568 *	#	US-PATENT-CLASS-136-89	c 03	N72-20031 *	#
US-PATENT-CLASS-128-62A	c 52	N82-29862 *	#	US-PATENT-CLASS-136-230	c 14	N71-23039 *	#	US-PATENT-CLASS-136-89	c 03	N72-22042 *	#
US-PATENT-CLASS-128-639	c 52	N79-27836 *	#	US-PATENT-CLASS-136-230	c 34	N74-27861 *	#	US-PATENT-CLASS-136-89	c 31	N72-22874 *	#
US-PATENT-CLASS-128-642	c 52	N80-27072 *	#	US-PATENT-CLASS-136-232	c 35	N77-14409 *	#	US-PATENT-CLASS-136-89	c 03	N72-24037 *	#
US-PATENT-CLASS-128-642	c 52	N81-14612 *	#	US-PATENT-CLASS-136-233	c 14	N72-27410 *	#	US-PATENT-CLASS-136-89	c 09	N72-25259 *	#
US-PATENT-CLASS-128-642	c 52	N81-20703 *	#	US-PATENT-CLASS-136-233	c 14	N73-13417 *	#	US-PATENT-CLASS-136-89	c 03	N72-27053 *	#
US-PATENT-CLASS-128-660	c 52	N79-26771 *	#	US-PATENT-CLASS-136-233	c 34	N74-27861 *	#	US-PATENT-CLASS-136-89	c 09	N73-32109 *	#
US-PATENT-CLASS-128-660	c 52	N83-27578 *	#	US-PATENT-CLASS-136-233	c 35	N77-14409 *	#	US-PATENT-CLASS-136-89	c 44	N74-14784 *	#
US-PATENT-CLASS-128-660	c 52	N85-30618 *	#	US-PATENT-CLASS-136-236R	c 35	N77-32454 *	#	US-PATENT-CLASS-136-89	c 44	N76-14600 *	#
US-PATENT-CLASS-128-663	c 52	N83-27578 *	#	US-PATENT-CLASS-136-236	c 35	N79-14346 *	#	US-PATENT-CLASS-136-89	c 44	N76-28635 *	#
US-PATENT-CLASS-128-665	c 52	N81-27783 *	#	US-PATENT-CLASS-136-240	c 35	N77-32454 *	#	US-PATENT-CLASS-136-89	c 44	N76-31666 *	#
US-PATENT-CLASS-128-666	c 52	N80-23969 *	#	US-PATENT-CLASS-136-246	c 44	N85-21768 *	#	US-PATENT-CLASS-136-89	c 44	N77-10635 *	#
US-PATENT-CLASS-128-686	c 52	N82-11770 *	#	US-PATENT-CLASS-136-249	c 44	N81-12542 *	#	US-PATENT-CLASS-136-89	c 44	N77-14580 *	#
US-PATENT-CLASS-128-690	c 52	N80-23969 *	#	US-PATENT-CLASS-136-249	c 44	N82-29709 *	#	US-PATENT-CLASS-136-89	c 44	N77-19571 *	#
US-PATENT-CLASS-128-691	c 52	N82-11770 *	#	US-PATENT-CLASS-136-249	c 44	N82-31764 *	#	US-PATENT-CLASS-136-89	c 44	N79-11468 *	#
US-PATENT-CLASS-128-6	c 52	N80-16725 *	#	US-PATENT-CLASS-136-249	c 44	N83-32177 *	#	US-PATENT-CLASS-136-90	c 44	N76-14601 *	#
US-PATENT-CLASS-128-736	c 52	N85-30618 *	#	US-PATENT-CLASS-136-24	c 09	N73-32108 *	#	US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *	#
US-PATENT-CLASS-128-748	c 52	N80-18691 *	#	US-PATENT-CLASS-136-253	c 44	N85-34441 *	#	US-PATENT-CLASS-137-101	c 07	N77-23106 *	#
US-PATENT-CLASS-128-760	c 52	N80-18690 *	#	US-PATENT-CLASS-136-255	c 44	N81-29525 *	#	US-PATENT-CLASS-137-104	c 37	N78-10467 *	#
US-PATENT-CLASS-128-760	c 52	N81-29763 *	#	US-PATENT-CLASS-136-255	c 44	N83-14692 *	#	US-PATENT-CLASS-137-110	c 54	N76-24900 *	#
US-PATENT-CLASS-128-761	c 52	N81-24711 *	#	US-PATENT-CLASS-136-255	c 33	N85-21492 *	#	US-PATENT-CLASS-137-116.3	c 37	N85-34403 *	#
US-PATENT-CLASS-128-774	c 52	N80-27072 *	#	US-PATENT-CLASS-136-255	c 44	N85-30475 *	#	US-PATENT-CLASS-137-13	c 15	N71-15967 *	#
US-PATENT-CLASS-128-774	c 52	N81-20703 *	#	US-PATENT-CLASS-136-255	c 76	N86-20150 *	#	US-PATENT-CLASS-137-13	c 15	N72-33477 *	#
US-PATENT-CLASS-128-774	c 52	N83-25346 *	#	US-PATENT-CLASS-136-256	c 44	N83-13579 *	#	US-PATENT-CLASS-137-14	c 37	N79-33468 *	#
US-PATENT-CLASS-128-778	c 52	N82-22875 *	#	US-PATENT-CLASS-136-256	c 44	N83-14692 *	#	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	#
US-PATENT-CLASS-128-782	c 52	N80-27072 *	#	US-PATENT-CLASS-136-256	c 44	N85-20530 *	#	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	#
US-PATENT-CLASS-128-782	c 39	N83-20280 *	#	US-PATENT-CLASS-136-256	c 44	N85-30475 *	#	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	#
US-PATENT-CLASS-128-782	c 52	N83-25346 *	#	US-PATENT-CLASS-136-258	c 44	N81-19558 *	#	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	#
US-PATENT-CLASS-128-784	c 52	N82-33996 *	#	US-PATENT-CLASS-136-258	c 44	N81-29525 *	#	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	#
US-PATENT-CLASS-128-80-E	c 54	N86-22112 *	#	US-PATENT-CLASS-136-259	c 44	N83-13579 *	#	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	#
US-PATENT-CLASS-128-80F	c 52	N81-25661 *	#	US-PATENT-CLASS-136-259	c 44	N83-14692 *	#	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *	#
US-PATENT-CLASS-128-804	c 52	N82-33996 *	#	US-PATENT-CLASS-136-261	c 44	N82-26777 *	#	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *	#
US-PATENT-CLASS-128-89R	c 52	N81-25662 *	#	US-PATENT-CLASS-136-261	c 44	N85-30475 *	#	US-PATENT-CLASS-137-15.2	c		

US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *	US-PATENT-CLASS-149-43	c 20	N78-32179 *
US-PATENT-CLASS-137-209	c 20	N80-10278 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *	US-PATENT-CLASS-149-44	c 20	N78-32179 *
US-PATENT-CLASS-137-340	c 15	N70-34817 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *	US-PATENT-CLASS-149-60	c 28	N74-33209 *
US-PATENT-CLASS-137-340	c 15	N70-35087 *	US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *	US-PATENT-CLASS-149-76	c 28	N74-33209 *
US-PATENT-CLASS-137-341	c 12	N71-17661 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *	US-PATENT-CLASS-149-76	c 20	N78-32179 *
US-PATENT-CLASS-137-375	c 37	N80-23654 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *	US-PATENT-CLASS-149-83	c 20	N78-32179 *
US-PATENT-CLASS-137-397	c 15	N73-26472 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *	US-PATENT-CLASS-149-85	c 20	N78-32179 *
US-PATENT-CLASS-137-469	c 05	N72-20097 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *	US-PATENT-CLASS-149-88	c 28	N78-31255 *
US-PATENT-CLASS-137-484.2	c 34	N78-25351 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *	US-PATENT-CLASS-149-92	c 27	N72-25699 *
US-PATENT-CLASS-137-487.5	c 14	N73-13418 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *	US-PATENT-CLASS-149-92	c 28	N78-31255 *
US-PATENT-CLASS-137-491	c 15	N69-21924 *	US-PATENT-CLASS-148-1.5	c 44	N82-26709 *	US-PATENT-CLASS-149-93	c 28	N78-31255 *
US-PATENT-CLASS-137-493	c 52	N81-25660 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *	US-PATENT-CLASS-15-143	c 15	N72-11390 *
US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *	US-PATENT-CLASS-15-210	c 15	N72-11390 *
US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *	US-PATENT-CLASS-15-230.16	c 37	N79-10422 *
US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *	US-PATENT-CLASS-15-230.17	c 37	N79-10422 *
US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *	US-PATENT-CLASS-15-406	c 37	N85-21652 *
US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-148-121	c 76	N79-16678 *	US-PATENT-CLASS-15-415	c 14	N73-30395 *
US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-148-125	c 26	N78-24333 *	US-PATENT-CLASS-150-11	c 37	N81-14317 *
US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-148-126	c 17	N71-24142 *	US-PATENT-CLASS-150-1	c 52	N79-14749 *
US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-148-126	c 18	N71-26153 *	US-PATENT-CLASS-151-41.76	c 37	N80-23653 *
US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-148-126	c 18	N71-28729 *	US-PATENT-CLASS-152-11	c 31	N71-18611 *
US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-148-126	c 26	N74-10521 *	US-PATENT-CLASS-152-225	c 15	N71-27091 *
US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-127	c 26	N75-29236 *	US-PATENT-CLASS-152-250	c 15	N71-27091 *
US-PATENT-CLASS-137-535	c 05	N73-32014 *	US-PATENT-CLASS-148-131	c 26	N80-28492 *	US-PATENT-CLASS-152-330RF	c 37	N81-24443 *
US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-13	c 14	N71-25892 *	US-PATENT-CLASS-152-353G	c 37	N81-24443 *
US-PATENT-CLASS-137-539	c 15	N70-41811 *	US-PATENT-CLASS-148-162	c 26	N77-20201 *	US-PATENT-CLASS-152-353R	c 37	N81-24443 *
US-PATENT-CLASS-137-549	c 37	N81-17433 *	US-PATENT-CLASS-148-173	c 76	N83-20789 *	US-PATENT-CLASS-152-379.4	c 37	N81-24443 *
US-PATENT-CLASS-137-550	c 37	N76-14463 *	US-PATENT-CLASS-148-174	c 26	N71-29156 *	US-PATENT-CLASS-156-307.7	c 27	N82-11206 *
US-PATENT-CLASS-137-554	c 09	N71-23191 *	US-PATENT-CLASS-148-174	c 44	N76-28635 *	US-PATENT-CLASS-156-DIG.6-8	c 76	N79-23798 *
US-PATENT-CLASS-137-559	c 11	N73-12265 *	US-PATENT-CLASS-148-174	c 44	N78-24609 *	US-PATENT-CLASS-156-DIG.62	c 76	N79-32919 *
US-PATENT-CLASS-137-574	c 20	N80-10278 *	US-PATENT-CLASS-148-174	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.62	c 35	N83-24828 *
US-PATENT-CLASS-137-576	c 20	N80-10278 *	US-PATENT-CLASS-148-175	c 25	N75-26043 *	US-PATENT-CLASS-156-DIG.62	c 33	N85-29142 *
US-PATENT-CLASS-137-582	c 32	N71-16103 *	US-PATENT-CLASS-148-175	c 76	N76-25049 *	US-PATENT-CLASS-156-DIG.64	c 76	N79-11920 *
US-PATENT-CLASS-137-582	c 32	N71-16106 *	US-PATENT-CLASS-148-175	c 44	N76-28635 *	US-PATENT-CLASS-156-DIG.64	c 44	N80-24741 *
US-PATENT-CLASS-137-582	c 15	N71-19569 *	US-PATENT-CLASS-148-175	c 44	N82-28780 *	US-PATENT-CLASS-156-DIG.64	c 76	N80-32245 *
US-PATENT-CLASS-137-582	c 15	N73-26472 *	US-PATENT-CLASS-148-175	c 76	N83-20789 *	US-PATENT-CLASS-156-DIG.64	c 76	N84-35113 *
US-PATENT-CLASS-137-590	c 20	N80-10278 *	US-PATENT-CLASS-148-175	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.65	c 76	N79-11920 *
US-PATENT-CLASS-137-594	c 12	N71-18615 *	US-PATENT-CLASS-148-187	c 26	N72-17820 *	US-PATENT-CLASS-156-DIG.65	c 76	N85-30922 *
US-PATENT-CLASS-137-604	c 15	N73-27406 *	US-PATENT-CLASS-148-187	c 14	N72-28438 *	US-PATENT-CLASS-156-DIG.6	c 76	N83-35888 *
US-PATENT-CLASS-137-608	c 15	N73-13462 *	US-PATENT-CLASS-148-187	c 33	N81-26360 *	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888 *
US-PATENT-CLASS-137-614.06	c 37	N79-11402 *	US-PATENT-CLASS-148-188	c 24	N71-10560 *	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220 *
US-PATENT-CLASS-137-614	c 15	N70-36492 *	US-PATENT-CLASS-148-188	c 09	N71-12513 *	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920 *
US-PATENT-CLASS-137-615	c 12	N71-16031 *	US-PATENT-CLASS-148-188	c 44	N79-11468 *	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245 *
US-PATENT-CLASS-137-624.11	c 35	N78-19466 *	US-PATENT-CLASS-148-20.3	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.88	c 76	N84-35113 *
US-PATENT-CLASS-137-624.14	c 03	N69-21469 *	US-PATENT-CLASS-148-2	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.88	c 76	N85-30922 *
US-PATENT-CLASS-137-625.38	c 37	N78-25426 *	US-PATENT-CLASS-148-2	c 26	N79-22271 *	US-PATENT-CLASS-156-DIG.89	c 27	N83-36220 *
US-PATENT-CLASS-137-625.3	c 37	N78-25426 *	US-PATENT-CLASS-148-32	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244 *
US-PATENT-CLASS-137-625.4	c 37	N80-23654 *	US-PATENT-CLASS-148-32.5	c 17	N72-22535 *	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389 *
US-PATENT-CLASS-137-625.5	c 15	N71-23051 *	US-PATENT-CLASS-148-32.5	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.98	c 76	N84-35113 *
US-PATENT-CLASS-137-625.69	c 15	N70-36908 *	US-PATENT-CLASS-148-32.5	c 26	N77-32280 *	US-PATENT-CLASS-156-104	c 44	N80-18550 *
US-PATENT-CLASS-137-628	c 37	N74-21065 *	US-PATENT-CLASS-148-32.5	c 26	N78-18183 *	US-PATENT-CLASS-156-154	c 24	N78-17150 *
US-PATENT-CLASS-137-637.05	c 37	N79-11402 *	US-PATENT-CLASS-148-32	c 26	N77-32279 *	US-PATENT-CLASS-156-154	c 27	N81-14077 *
US-PATENT-CLASS-137-81.5	c 12	N69-21466 *	US-PATENT-CLASS-148-32	c 26	N80-23419 *	US-PATENT-CLASS-156-157	c 33	N82-26571 *
US-PATENT-CLASS-137-81.5	c 15	N71-15609 *	US-PATENT-CLASS-148-33.2	c 76	N85-30922 *	US-PATENT-CLASS-156-160	c 27	N81-14077 *
US-PATENT-CLASS-137-81.5	c 12	N71-17578 *	US-PATENT-CLASS-148-428	c 26	N82-31505 *	US-PATENT-CLASS-156-161	c 24	N81-29163 *
US-PATENT-CLASS-137-81.5	c 12	N71-17579 *	US-PATENT-CLASS-148-6.11	c 15	N71-24875 *	US-PATENT-CLASS-156-163	c 27	N81-14077 *
US-PATENT-CLASS-137-81.5	c 10	N71-25899 *	US-PATENT-CLASS-148-6.16	c 18	N71-23047 *	US-PATENT-CLASS-156-165	c 24	N81-29163 *
US-PATENT-CLASS-137-81.5	c 12	N71-27332 *	US-PATENT-CLASS-148-6.20	c 17	N71-23828 *	US-PATENT-CLASS-156-166	c 74	N85-29749 *
US-PATENT-CLASS-137-81.5	c 12	N71-28741 *	US-PATENT-CLASS-148-6.3	c 17	N71-33408 *	US-PATENT-CLASS-156-16	c 74	N75-12732 *
US-PATENT-CLASS-137-81.5	c 28	N72-22772 *	US-PATENT-CLASS-148-6.3	c 44	N79-18444 *	US-PATENT-CLASS-156-172	c 15	N71-17651 *
US-PATENT-CLASS-137-81.5	c 15	N72-33477 *	US-PATENT-CLASS-148-6	c 18	N71-29040 *	US-PATENT-CLASS-156-17	c 76	N79-21910 *
US-PATENT-CLASS-137-81.5	c 15	N73-13462 *	US-PATENT-CLASS-148-6	c 76	N79-16678 *	US-PATENT-CLASS-156-18	c 26	N73-26752 *
US-PATENT-CLASS-137-81.5	c 28	N73-13773 *	US-PATENT-CLASS-149-105	c 28	N78-31255 *	US-PATENT-CLASS-156-18	c 74	N75-12732 *
US-PATENT-CLASS-137-819	c 33	N74-11050 *	US-PATENT-CLASS-149-108.4	c 28	N80-23471 *	US-PATENT-CLASS-156-191	c 52	N84-28389 *
US-PATENT-CLASS-137-81	c 05	N72-20097 *	US-PATENT-CLASS-149-108.4	c 28	N81-15119 *	US-PATENT-CLASS-156-212	c 03	N71-26726 *
US-PATENT-CLASS-137-81	c 14	N73-13418 *	US-PATENT-CLASS-149-109	c 27	N70-41897 *	US-PATENT-CLASS-156-212	c 24	N80-26388 *
US-PATENT-CLASS-137-833	c 33	N74-11050 *	US-PATENT-CLASS-149-111	c 28	N78-31255 *	US-PATENT-CLASS-156-212	c 27	N81-14077 *
US-PATENT-CLASS-137-838	c 71	N84-28568 *	US-PATENT-CLASS-149-15	c 44	N80-20808 *	US-PATENT-CLASS-156-213	c 24	N80-26388 *
US-PATENT-CLASS-137-840	c 33	N74-11050 *	US-PATENT-CLASS-149-17	c 28	N74-33209 *	US-PATENT-CLASS-156-215	c 35	N84-12443 *
US-PATENT-CLASS-137-886	c 37	N81-17433 *	US-PATENT-CLASS-149-19.2	c 28	N80-28536 *	US-PATENT-CLASS-156-218	c 54	N74-32546 *
US-PATENT-CLASS-137-887	c 37	N81-17433 *	US-PATENT-CLASS-149-19.4	c 28	N78-31255 *	US-PATENT-CLASS-156-229	c 24	N77-28225 *
US-PATENT-CLASS-137-99	c 37	N85-34403 *	US-PATENT-CLASS-149-19.4	c 20	N78-32179 *	US-PATENT-CLASS-156-230	c 35	N84-12443 *
US-PATENT-CLASS-138.8R	c 27	N81-15104 *	US-PATENT-CLASS-149-19.4	c 28	N79-28342 *	US-PATENT-CLASS-156-235	c 35	N84-12443 *
US-PATENT-CLASS-138-103	c 52	N80-16725 *	US-PATENT-CLASS-149-19.8	c 28	N78-31255 *	US-PATENT-CLASS-156-242	c 15	N69-24222 *
US-PATENT-CLASS-138-113	c 34	N75-12222 *	US-PATENT-CLASS-149-19.92	c 28	N79-14228 *	US-PATENT-CLASS-156-242	c 37	N76-24575 *
US-PATENT-CLASS-138-114	c 34	N75-12222 *	US-PATENT-CLASS-149-19.9	c 28	N79-14228 *	US-PATENT-CLASS-156-242	c 24	N81-33235 *
US-PATENT-CLASS-138-119	c 32	N70-41579 *	US-PATENT-CLASS-149-19.9	c 28	N79-28342 *	US-PATENT-CLASS-156-245	c 31	N74-18089 *
US-PATENT-CLASS-138-133	c 52	N80-16725 *	US-PATENT-CLASS-149-19.9	c 28	N80-28536 *	US-PATENT-CLASS-156-245	c 24	N78-17149 *
US-PATENT-CLASS-138-148	c 34	N75-12222 *	US-PATENT-CLASS-149-19	c 27	N71-14090 *	US-PATENT-CLASS-156-245	c 24	N81-33235 *
US-PATENT-CLASS-138-178	c 15	N72-20445 *	US-PATENT-CLASS-149-19	c 27	N72-25699 *	US-PATENT-CLASS-156-247	c 31	N74-18089 *
US-PATENT-CLASS-138-33	c 52	N80-16725 *	US-PATENT-CLASS-149-19	c 27	N73-16764 *	US-PATENT-CLASS-156-250	c 03	N72-25019 *
US-PATENT-CLASS-138-42	c 15	N71-15608 *	US-PATENT-CLASS-149-1	c 23	N71-16212 *	US-PATENT-CLASS-156-252	c 24	N81-33235 *
US-PATENT-CLASS-138-42	c 44	N84-14583 *	US-PATENT-CLASS-149-1	c 06	N73-30097 *	US-PATENT-CLASS-156-264	c 05	N72-25121 *
US-PATENT-CLASS-138-43	c 15	N71-19213 *	US-PATENT-CLASS-149-1	c 28	N80-20402 *	US-PATENT-CLASS-156-264	c 24	N78-17150 *
US-PATENT-CLASS-138-45	c 15	N71-18580 *	US-PATENT-CLASS-149-1	c 28	N81-14103 *	US-PATENT-CLASS-156-264	c 24	N81-33235 *
US-PATENT-CLASS-138-45	c 15	N73-13462 *	US-PATENT-CLASS-149-20	c 27	N72-25699 *	US-PATENT-CLASS-156-264	c 31	N83-34073 *
US-PATENT-CLASS-138-46	c 12	N71-18615 *	US-PATENT-CLASS-149-20	c 28	N79-14228 *	US-PATENT-CLASS-156-267	c 27	N81-14077 *
US-PATENT-CLASS-138-4	c 15	N71-18580 *	US-PATENT-CLASS-149-20	c 28	N79-28342 *	US-PATENT-CLASS-156-272.4	c 31	N85-29083 *
US-PATENT-CLASS-138-96R	c 37	N79-22474 *	US-PATENT-CLASS-149-20	c 28	N80-28536 *	US-PATENT-CLASS-156-272	c 27	N80-32516 *
US-PATENT-CLASS-139-425R	c 28	N72-11708 *	US-PATENT-CLASS-149-2	c 12	N70-40124 *	US-PATENT-CLASS-156-272	c 33	N82-26571 *
US-PATENT-CLASS-140-105	c 15	N72-12408 *	US-PATENT-CLASS-149-36	c 27	N72-25699 *	US-PATENT-CLASS-156-273.7	c 27	N85-20125 *
US-PATENT-CLASS-140-123	c 15	N71-15918 *	US-PATENT-CLASS-149-36	c 27	N73-16764 *	US-PATENT-CLASS-156-273.9	c 31	N85-29083 *
US-PATENT-CLASS-140-124	c 15	N71-10809 *	US-PATENT-CLASS-149-36	c 06	N73-30097 *	US-PATENT-CLASS-156-278	c 44	N80-18550 *
US-PATENT-CLASS-141-197	c 35	N78-10428 *	US-PATENT-CLASS-149-36	c 24	N76-14203 *	US-PATENT-CLASS-156-285	c 15	N71-23052 *
US-PATENT-CLASS-141-23	c 15	N72-21465 *	US-PATENT-CLASS-149-37	c 44	N80-20808 *	US-PATENT-CLASS-156-285	c 18	N73-30532 *
US-PATENT-CLASS-141-258	c 14	N71-27005 *	US-PATENT-CLASS-149-42	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 31	N74-18089 *

US-PATENT-CLASS-156-285	c 24	N74-27035 *	#	US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	#	US-PATENT-CLASS-165-105	c 34	N78-17337 *	#
US-PATENT-CLASS-156-285	c 24	N78-17149 *	#	US-PATENT-CLASS-156-624	c 76	N83-20789 *	#	US-PATENT-CLASS-165-105	c 44	N79-18443 *	#
US-PATENT-CLASS-156-285	c 24	N78-17150 *	#	US-PATENT-CLASS-156-630	c 35	N84-22930 *	#	US-PATENT-CLASS-165-105	c 37	N79-28549 *	#
US-PATENT-CLASS-156-285	c 44	N80-18550 *	#	US-PATENT-CLASS-156-633	c 44	N78-25529 *	#	US-PATENT-CLASS-165-105	c 34	N79-31523 *	#
US-PATENT-CLASS-156-285	c 24	N80-26388 *	#	US-PATENT-CLASS-156-635	c 76	N83-20789 *	#	US-PATENT-CLASS-165-105	c 35	N81-14287 *	#
US-PATENT-CLASS-156-285	c 24	N81-29163 *	#	US-PATENT-CLASS-156-643	c 52	N84-23095 *	#	US-PATENT-CLASS-165-106	c 33	N73-32818 *	#
US-PATENT-CLASS-156-285	c 24	N81-33235 *	#	US-PATENT-CLASS-156-644	c 52	N84-23095 *	#	US-PATENT-CLASS-165-106	c 34	N76-17317 *	#
US-PATENT-CLASS-156-285	c 52	N84-28389 *	#	US-PATENT-CLASS-156-645	c 27	N77-32308 *	#	US-PATENT-CLASS-165-107	c 09	N71-24807 *	#
US-PATENT-CLASS-156-286	c 37	N76-21554 *	#	US-PATENT-CLASS-156-647	c 33	N81-26360 *	#	US-PATENT-CLASS-165-107	c 44	N77-32581 *	#
US-PATENT-CLASS-156-286	c 37	N76-24575 *	#	US-PATENT-CLASS-156-648	c 33	N81-26360 *	#	US-PATENT-CLASS-165-109	c 35	N74-15093 *	#
US-PATENT-CLASS-156-286	c 24	N78-17150 *	#	US-PATENT-CLASS-156-649	c 33	N81-26360 *	#	US-PATENT-CLASS-165-110	c 44	N76-31667 *	#
US-PATENT-CLASS-156-289	c 24	N78-17149 *	#	US-PATENT-CLASS-156-654	c 76	N83-20789 *	#	US-PATENT-CLASS-165-111	c 77	N75-20139 *	#
US-PATENT-CLASS-156-289	c 24	N78-17150 *	#	US-PATENT-CLASS-156-654	c 35	N84-22930 *	#	US-PATENT-CLASS-165-112	c 33	N71-24276 *	#
US-PATENT-CLASS-156-289	c 52	N84-28389 *	#	US-PATENT-CLASS-156-662	c 76	N83-20789 *	#	US-PATENT-CLASS-165-112	c 33	N83-34221 *	#
US-PATENT-CLASS-156-290	c 24	N81-33235 *	#	US-PATENT-CLASS-156-663	c 27	N77-32308 *	#	US-PATENT-CLASS-165-133	c 33	N71-16277 *	#
US-PATENT-CLASS-156-292	c 27	N80-32516 *	#	US-PATENT-CLASS-156-668	c 52	N84-23095 *	#	US-PATENT-CLASS-165-133	c 33	N71-25353 *	#
US-PATENT-CLASS-156-292	c 24	N81-17170 *	#	US-PATENT-CLASS-156-66	c 15	N72-11392 *	#	US-PATENT-CLASS-165-133	c 33	N72-20915 *	#
US-PATENT-CLASS-156-294	c 37	N81-14317 *	#	US-PATENT-CLASS-156-71	c 33	N82-26571 *	#	US-PATENT-CLASS-165-133	c 44	N76-23675 *	#
US-PATENT-CLASS-156-294	c 24	N81-29163 *	#	US-PATENT-CLASS-156-71	c 35	N84-12443 *	#	US-PATENT-CLASS-165-134R	c 74	N83-19596 *	#
US-PATENT-CLASS-156-294	c 35	N84-12443 *	#	US-PATENT-CLASS-156-74	c 24	N81-29163 *	#	US-PATENT-CLASS-165-134	c 34	N78-17336 *	#
US-PATENT-CLASS-156-295	c 27	N81-14077 *	#	US-PATENT-CLASS-156-77	c 74	N75-12732 *	#	US-PATENT-CLASS-165-135	c 34	N84-22903 *	#
US-PATENT-CLASS-156-300	c 24	N78-17150 *	#	US-PATENT-CLASS-156-81	c 27	N84-22748 *	#	US-PATENT-CLASS-165-138	c 09	N71-24807 *	#
US-PATENT-CLASS-156-303	c 44	N80-18550 *	#	US-PATENT-CLASS-156-84	c 15	N72-16330 *	#	US-PATENT-CLASS-165-141	c 28	N73-32606 *	#
US-PATENT-CLASS-156-304.3	c 27	N84-22748 *	#	US-PATENT-CLASS-156-84	c 37	N82-24491 *	#	US-PATENT-CLASS-165-146	c 34	N79-13289 *	#
US-PATENT-CLASS-156-304.6	c 27	N84-22748 *	#	US-PATENT-CLASS-156-85	c 37	N82-24491 *	#	US-PATENT-CLASS-165-155	c 33	N72-20915 *	#
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US-PATENT-CLASS-156-307.3	c 27	N82-11206 *	#	US-PATENT-CLASS-156-86	c 37	N82-24491 *	#	US-PATENT-CLASS-165-161	c 33	N72-20915 *	#
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US-PATENT-CLASS-2-164	c 54	N84-28484 *	#	US-PATENT-CLASS-204-180G	c 25	N78-14104 *	#	US-PATENT-CLASS-204-32R	c 44	N76-14595 *	#
US-PATENT-CLASS-2-167	c 54	N84-23113 *	#	US-PATENT-CLASS-204-180G	c 25	N79-14169 *	#	US-PATENT-CLASS-204-324	c 33	N73-16918 *	#
US-PATENT-CLASS-2-167	c 54	N84-28484 *	#	US-PATENT-CLASS-204-180G	c 37	N80-14397 *	#	US-PATENT-CLASS-204-325	c 33	N73-16918 *	#
US-PATENT-CLASS-2-2.1A	c 05	N72-22092 *	#	US-PATENT-CLASS-204-180P	c 54	N78-14784 *	#	US-PATENT-CLASS-204-328	c 33	N73-16918 *	#
US-PATENT-CLASS-2-2.1A	c 05	N73-25125 *	#	US-PATENT-CLASS-204-180R	c 25	N74-26948 *	#	US-PATENT-CLASS-204-332	c 44	N79-11469 *	#
US-PATENT-CLASS-2-2.1A	c 05	N73-32012 *	#	US-PATENT-CLASS-204-180R	c 34	N74-27744 *	#	US-PATENT-CLASS-204-33	c 17	N71-25903 *	#
US-PATENT-CLASS-2-2.1A	c 54	N74-32546 *	#	US-PATENT-CLASS-204-180R	c 51	N80-16715 *	#	US-PATENT-CLASS-204-33	c 44	N76-14595 *	#
US-PATENT-CLASS-2-2.1A	c 54	N77-32721 *	#	US-PATENT-CLASS-204-180S	c 25	N79-10163 *	#	US-PATENT-CLASS-204-33	c 44	N79-11469 *	#
US-PATENT-CLASS-2-2.1A	c 54	N78-17675 *	#	US-PATENT-CLASS-204-180S	c 25	N79-14169 *	#	US-PATENT-CLASS-204-33	c 44	N83-34449 *	#
US-PATENT-CLASS-2-2.1A	c 54	N78-31735 *	#	US-PATENT-CLASS-204-192-C	c 27	N86-19458 *	#	US-PATENT-CLASS-204-35N	c 27	N83-29388 *	#
US-PATENT-CLASS-2-2.1A	c 54	N78-31736 *	#	US-PATENT-CLASS-204-192-D	c 27	N86-19458 *	#	US-PATENT-CLASS-204-35N	c 44	N83-34449 *	#
US-PATENT-CLASS-2-2.1A	c 54	N79-24651 *	#	US-PATENT-CLASS-204-192-R	c 27	N86-19458 *	#	US-PATENT-CLASS-204-37.6	c 76	N84-35112 *	#
US-PATENT-CLASS-2-2.1	c 05	N71-11194 *	#	US-PATENT-CLASS-204-192C	c 76	N79-14906 *	#	US-PATENT-CLASS-204-37R	c 44	N79-11469 *	#
US-PATENT-CLASS-2-2.1	c 05	N71-11195 *	#	US-PATENT-CLASS-204-192C	c 26	N82-29415 *	#	US-PATENT-CLASS-204-37R	c 27	N83-29388 *	#
US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	#	US-PATENT-CLASS-204-192C	c 26	N82-30371 *	#	US-PATENT-CLASS-204-37	c 33	N71-29151 *	#
US-PATENT-CLASS-2-2.1	c 05	N71-12344 *									

US-PATENT-CLASS-204-49	c 15	N72-25452 *	#	US-PATENT-CLASS-212-134	c 15	N72-11388 *	US-PATENT-CLASS-219-477	c 33	N74-14935 *	#
US-PATENT-CLASS-204-49	c 44	N76-14595 *	#	US-PATENT-CLASS-212-230	c 37	N86-20789 *	US-PATENT-CLASS-219-497	c 77	N75-20140 *	#
US-PATENT-CLASS-204-56R	c 44	N83-10494 *	#	US-PATENT-CLASS-212-267	c 31	N81-27324 *	US-PATENT-CLASS-219-499	c 14	N73-26430 *	#
US-PATENT-CLASS-204-56R	c 27	N83-29388 *	#	US-PATENT-CLASS-213-81	c 37	N77-23483 *	US-PATENT-CLASS-219-501	c 77	N75-20140 *	#
US-PATENT-CLASS-204-56R	c 76	N84-35112 *	#	US-PATENT-CLASS-214-1CM	c 37	N76-15460 *	US-PATENT-CLASS-219-505	c 14	N71-27058 *	#
US-PATENT-CLASS-204-59	c 15	N72-21466 *	#	US-PATENT-CLASS-214-1BC	c 54	N77-32721 *	US-PATENT-CLASS-219-505	c 77	N75-20140 *	#
US-PATENT-CLASS-204-9	c 20	N74-32919 *	#	US-PATENT-CLASS-214-1B	c 54	N75-27758 *	US-PATENT-CLASS-219-510	c 14	N73-26430 *	#
US-PATENT-CLASS-204-9	c 24	N77-19171 *	#	US-PATENT-CLASS-214-1CM	c 15	N72-29495 *	US-PATENT-CLASS-219-510	c 35	N81-26431 *	#
US-PATENT-CLASS-204/298	c 27	N86-19458 *	#	US-PATENT-CLASS-214-1CM	c 54	N75-12616 *	US-PATENT-CLASS-219-522	c 11	N73-12265 *	#
US-PATENT-CLASS-204-195B	c 25	N79-22235 *	#	US-PATENT-CLASS-214-1CM	c 18	N75-27041 *	US-PATENT-CLASS-219-522	c 52	N80-16725 *	#
US-PATENT-CLASS-205-343	c 35	N75-30502 *	#	US-PATENT-CLASS-214-1CM	c 54	N75-27758 *	US-PATENT-CLASS-219-522	c 27	N84-33589 *	#
US-PATENT-CLASS-206-439	c 52	N79-14749 *	#	US-PATENT-CLASS-214-1CM	c 37	N77-23483 *	US-PATENT-CLASS-219-530	c 33	N71-25353 *	#
US-PATENT-CLASS-206-447	c 27	N84-14323 *	#	US-PATENT-CLASS-214-1CM	c 54	N77-32721 *	US-PATENT-CLASS-219-539	c 33	N74-14935 *	#
US-PATENT-CLASS-206-582	c 27	N84-14323 *	#	US-PATENT-CLASS-214-1CM	c 54	N78-17676 *	US-PATENT-CLASS-219-541	c 27	N84-33589 *	#
US-PATENT-CLASS-208-10	c 25	N79-11152 *	#	US-PATENT-CLASS-214-1R	c 37	N76-15457 *	US-PATENT-CLASS-219-543	c 27	N84-33589 *	#
US-PATENT-CLASS-208-10	c 23	N84-16255 *	#	US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *	US-PATENT-CLASS-219-545	c 33	N82-26571 *	#
US-PATENT-CLASS-208-10	c 25	N84-22709 *	#	US-PATENT-CLASS-214-1	c 32	N70-41367 *	US-PATENT-CLASS-219-62	c 15	N73-28515 *	#
US-PATENT-CLASS-208-241	c 25	N82-23282 *	#	US-PATENT-CLASS-214-90R	c 03	N72-25021 *	US-PATENT-CLASS-219-72	c 15	N71-14932 *	#
US-PATENT-CLASS-208-8LE	c 23	N84-16255 *	#	US-PATENT-CLASS-215-247	c 33	N76-19339 *	US-PATENT-CLASS-219-76.14	c 24	N85-30027 *	#
US-PATENT-CLASS-208-8LE	c 25	N84-22709 *	#	US-PATENT-CLASS-219-10.41	c 33	N82-26571 *	US-PATENT-CLASS-219-78	c 37	N74-11300 *	#
US-PATENT-CLASS-208-8	c 25	N79-11152 *	#	US-PATENT-CLASS-219-10.43	c 31	N85-29083 *	US-PATENT-CLASS-219-85CA	c 35	N80-20560 *	#
US-PATENT-CLASS-209-10	c 15	N71-20440 *	#	US-PATENT-CLASS-219-10.49R	c 33	N81-19389 *	US-PATENT-CLASS-219-85CM	c 35	N80-20560 *	#
US-PATENT-CLASS-209-127R	c 35	N76-22509 *	#	US-PATENT-CLASS-219-10.49	c 11	N71-15925 *	US-PATENT-CLASS-219-85R	c 35	N80-20560 *	#
US-PATENT-CLASS-209-250	c 37	N76-18456 *	#	US-PATENT-CLASS-219-10.49	c 31	N85-29083 *	US-PATENT-CLASS-219-85	c 15	N72-22491 *	#
US-PATENT-CLASS-209-300	c 37	N76-18456 *	#	US-PATENT-CLASS-219-10.53	c 33	N82-26571 *	US-PATENT-CLASS-219-85	c 15	N72-23497 *	#
US-PATENT-CLASS-209-305	c 37	N76-18456 *	#	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *	US-PATENT-CLASS-219-91	c 15	N71-18613 *	#
US-PATENT-CLASS-209-349	c 15	N72-22483 *	#	US-PATENT-CLASS-219-10.67	c 33	N81-19389 *	US-PATENT-CLASS-219-91	c 15	N73-32358 *	#
US-PATENT-CLASS-209-422	c 71	N85-30765 *	#	US-PATENT-CLASS-219-10.77	c 31	N85-29083 *	US-PATENT-CLASS-219-92	c 37	N76-27568 *	#
US-PATENT-CLASS-209-638	c 71	N85-30765 *	#	US-PATENT-CLASS-219-101	c 15	N73-14468 *	US-PATENT-CLASS-219-92	c 37	N77-11397 *	#
US-PATENT-CLASS-21-207	c 17	N71-16393 *	#	US-PATENT-CLASS-219-101	c 37	N74-11300 *	US-PATENT-CLASS-22-200	c 15	N71-15966 *	#
US-PATENT-CLASS-210-DIG.23	c 52	N79-14749 *	#	US-PATENT-CLASS-219-107	c 15	N73-28515 *	US-PATENT-CLASS-22-203	c 17	N70-38198 *	#
US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *	#	US-PATENT-CLASS-219-107	c 37	N74-11300 *	US-PATENT-CLASS-220-14	c 15	N69-39935 *	#
US-PATENT-CLASS-210-103	c 05	N72-27102 *	#	US-PATENT-CLASS-219-109	c 15	N72-23497 *	US-PATENT-CLASS-220-15	c 31	N71-15664 *	#
US-PATENT-CLASS-210-104	c 05	N72-27102 *	#	US-PATENT-CLASS-219-117	c 15	N73-32358 *	US-PATENT-CLASS-220-15	c 34	N75-12222 *	#
US-PATENT-CLASS-210-108	c 34	N79-24285 *	#	US-PATENT-CLASS-219-118	c 37	N76-27568 *	US-PATENT-CLASS-220-1	c 31	N71-17680 *	#
US-PATENT-CLASS-210-110	c 05	N72-27102 *	#	US-PATENT-CLASS-219-118	c 37	N77-11397 *	US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	#
US-PATENT-CLASS-210-137	c 05	N72-27102 *	#	US-PATENT-CLASS-219-119	c 15	N73-14468 *	US-PATENT-CLASS-220-266	c 37	N79-23474 *	#
US-PATENT-CLASS-210-142	c 34	N79-24285 *	#	US-PATENT-CLASS-219-121LN	c 44	N82-26777 *	US-PATENT-CLASS-220-306	c 27	N84-27886 *	#
US-PATENT-CLASS-210-151	c 45	N84-12654 *	#	US-PATENT-CLASS-219-121P	c 15	N72-32487 *	US-PATENT-CLASS-220-335	c 45	N83-25217 *	#
US-PATENT-CLASS-210-186	c 37	N80-10494 *	#	US-PATENT-CLASS-219-121	c 15	N69-21471 *	US-PATENT-CLASS-220-378	c 37	N82-24490 *	#
US-PATENT-CLASS-210-188	c 12	N72-25292 *	#	US-PATENT-CLASS-219-121	c 33	N70-34540 *	US-PATENT-CLASS-220-423	c 37	N80-18393 *	#
US-PATENT-CLASS-210-192	c 54	N78-14784 *	#	US-PATENT-CLASS-219-121	c 15	N71-19486 *	US-PATENT-CLASS-220-429	c 44	N80-20808 *	#
US-PATENT-CLASS-210-212	c 03	N72-20033 *	#	US-PATENT-CLASS-219-121	c 16	N71-20400 *	US-PATENT-CLASS-220-445	c 37	N80-18393 *	#
US-PATENT-CLASS-210-222	c 35	N78-12390 *	#	US-PATENT-CLASS-219-121	c 15	N71-27135 *	US-PATENT-CLASS-220-46	c 15	N71-27068 *	#
US-PATENT-CLASS-210-22	c 52	N80-14687 *	#	US-PATENT-CLASS-219-124.2.2	c 37	N78-10421 *	US-PATENT-CLASS-220-5R	c 15	N72-22486 *	#
US-PATENT-CLASS-210-23F	c 51	N79-10693 *	#	US-PATENT-CLASS-219-124.32	c 37	N79-10421 *	US-PATENT-CLASS-220-55	c 15	N69-27502 *	#
US-PATENT-CLASS-210-23H	c 27	N80-23452 *	#	US-PATENT-CLASS-219-124.34	c 37	N86-21850 *	US-PATENT-CLASS-220-63	c 11	N70-38182 *	#
US-PATENT-CLASS-210-234	c 34	N75-33342 *	#	US-PATENT-CLASS-219-125.1	c 37	N79-10421 *	US-PATENT-CLASS-220-67	c 15	N71-10577 *	#
US-PATENT-CLASS-210-24R	c 27	N81-14076 *	#	US-PATENT-CLASS-219-125	c 15	N71-23815 *	US-PATENT-CLASS-220-82R	c 31	N81-19343 *	#
US-PATENT-CLASS-210-24	c 27	N77-30236 *	#	US-PATENT-CLASS-219-125	c 37	N75-27376 *	US-PATENT-CLASS-220-89A	c 31	N81-19343 *	#
US-PATENT-CLASS-210-24	c 25	N81-19244 *	#	US-PATENT-CLASS-219-130	c 15	N71-23798 *	US-PATENT-CLASS-220-89	c 11	N71-15960 *	#
US-PATENT-CLASS-210-259	c 34	N75-33342 *	#	US-PATENT-CLASS-219-131	c 15	N71-15871 *	US-PATENT-CLASS-220-89	c 11	N71-17600 *	#
US-PATENT-CLASS-210-28	c 85	N79-17747 *	#	US-PATENT-CLASS-219-137	c 15	N70-34814 *	US-PATENT-CLASS-220-901	c 37	N80-18393 *	#
US-PATENT-CLASS-210-304	c 34	N75-33342 *	#	US-PATENT-CLASS-219-137	c 37	N75-19683 *	US-PATENT-CLASS-220-9	c 23	N71-22881 *	#
US-PATENT-CLASS-210-314	c 28	N70-41447 *	#	US-PATENT-CLASS-219-158	c 15	N72-22491 *	US-PATENT-CLASS-220-9	c 18	N71-23658 *	#
US-PATENT-CLASS-210-321.1	c 25	N82-21269 *	#	US-PATENT-CLASS-219-160	c 37	N80-23655 *	US-PATENT-CLASS-220-9	c 15	N71-23816 *	#
US-PATENT-CLASS-210-321B	c 52	N80-14687 *	#	US-PATENT-CLASS-219-161	c 37	N80-23655 *	US-PATENT-CLASS-220-9	c 33	N71-25351 *	#
US-PATENT-CLASS-210-333	c 34	N75-33342 *	#	US-PATENT-CLASS-219-19	c 33	N70-34812 *	US-PATENT-CLASS-221-265	c 51	N74-15778 *	#
US-PATENT-CLASS-210-340	c 34	N75-33342 *	#	US-PATENT-CLASS-219-201	c 52	N80-16725 *	US-PATENT-CLASS-222-131	c 31	N79-21225 *	#
US-PATENT-CLASS-210-340	c 37	N80-10494 *	#	US-PATENT-CLASS-219-201	c 37	N85-29286 *	US-PATENT-CLASS-222-135	c 15	N72-21465 *	#
US-PATENT-CLASS-210-40	c 27	N77-31308 *	#	US-PATENT-CLASS-219-203	c 11	N73-12265 *	US-PATENT-CLASS-222-137	c 14	N71-27005 *	#
US-PATENT-CLASS-210-40	c 85	N79-17747 *	#	US-PATENT-CLASS-219-203	c 27	N84-33589 *	US-PATENT-CLASS-222-145	c 37	N76-19436 *	#
US-PATENT-CLASS-210-40	c 45	N82-11634 *	#	US-PATENT-CLASS-219-209	c 35	N81-26431 *	US-PATENT-CLASS-222-193	c 37	N74-13178 *	#
US-PATENT-CLASS-210-411	c 34	N75-33342 *	#	US-PATENT-CLASS-219-210	c 35	N81-26431 *	US-PATENT-CLASS-222-309	c 15	N72-21465 *	#
US-PATENT-CLASS-210-425	c 34	N75-33342 *	#	US-PATENT-CLASS-219-216	c 35	N74-15831 *	US-PATENT-CLASS-222-309	c 54	N74-12779 *	#
US-PATENT-CLASS-210-429	c 37	N76-14463 *	#	US-PATENT-CLASS-219-219	c 27	N84-33589 *	US-PATENT-CLASS-222-309	c 35	N85-21595 *	#
US-PATENT-CLASS-210-433M	c 51	N79-10693 *	#	US-PATENT-CLASS-219-221	c 15	N72-11392 *	US-PATENT-CLASS-222-324	c 54	N74-17853 *	#
US-PATENT-CLASS-210-445	c 15	N72-11389 *	#	US-PATENT-CLASS-219-221	c 37	N85-29286 *	US-PATENT-CLASS-222-340	c 54	N74-12779 *	#
US-PATENT-CLASS-210-45	c 85	N79-17747 *	#	US-PATENT-CLASS-219-229	c 15	N71-27214 *	US-PATENT-CLASS-222-340	c 35	N85-21595 *	#
US-PATENT-CLASS-210-500M	c 27	N80-23452 *	#	US-PATENT-CLASS-219-234	c 15	N72-22491 *	US-PATENT-CLASS-222-387	c 54	N74-12779 *	#
US-PATENT-CLASS-210-500M	c 25	N81-17187 *	#	US-PATENT-CLASS-219-234	c 15	N72-23497 *	US-PATENT-CLASS-222-389	c 15	N70-38996 *	#
US-PATENT-CLASS-210-500	c 25	N75-12087 *	#	US-PATENT-CLASS-219-243	c 15	N72-11392 *	US-PATENT-CLASS-222-414	c 14	N73-27378 *	#
US-PATENT-CLASS-210-512	c 45	N79-12584 *	#	US-PATENT-CLASS-219-273	c 15	N72-32487 *	US-PATENT-CLASS-222-43	c 35	N85-21595 *	#
US-PATENT-CLASS-210-54	c 85	N79-17747 *	#	US-PATENT-CLASS-219-275	c 15	N71-20395 *	US-PATENT-CLASS-222-45	c 14	N70-40233 *	#
US-PATENT-CLASS-210-57	c 45	N80-14579 *	#	US-PATENT-CLASS-219-285	c 37	N85-29286 *	US-PATENT-CLASS-222-48	c 35	N85-21595 *	#
US-PATENT-CLASS-210-602	c 45	N84-12654 *	#	US-PATENT-CLASS-219-299	c 51	N79-10694 *	US-PATENT-CLASS-222-49	c 14	N71-27005 *	#
US-PATENT-CLASS-210-605	c 45	N84-12654 *	#	US-PATENT-CLASS-219-300	c 37	N77-13418 *	US-PATENT-CLASS-222-514	c 54	N74-12779 *	#
US-PATENT-CLASS-210-60	c 45	N79-12584 *	#	US-PATENT-CLASS-219-302	c 51	N79-10694 *	US-PATENT-CLASS-222-61	c 27	N71-29155 *	#
US-PATENT-CLASS-210-617	c 45	N84-12654 *	#	US-PATENT-CLASS-219-304	c 37	N77-13418 *	US-PATENT-CLASS-222-61	c 37	N77-28487 *	#
US-PATENT-CLASS-210-63R	c 25	N78-10225 *	#	US-PATENT-CLASS-219-343	c 27	N83-36220 *	US-PATENT-CLASS-222-71	c 15	N72-21465 *	#
US-PATENT-CLASS-210-63R	c 45	N79-12584 *	#	US-PATENT-CLASS-219-347	c 15	N69-27871 *	US-PATENT-CLASS-222-95	c 37	N77-28487 *	#
US-PATENT-CLASS-210-63Z	c 45	N80-14579 *	#	US-PATENT-CLASS-219-347	c 33	N70-34545 *	US-PATENT-CLASS-224-25A	c 05	N72-23085 *	#
US-PATENT-CLASS-210-66	c 85	N79-17747 *	#	US-PATENT-CLASS-219-348	c 15	N73-27405 *	US-PATENT-CLASS-224-25	c 05	N71-12351 *	#
US-PATENT-CLASS-210-67	c 85	N79-17747 *	#	US-PATENT-CLASS-219-34	c 09	N70-33312 *	US-PATENT-CLASS-224-444	c 54	N74-17853 *	#
US-PATENT-CLASS-210-70	c 85	N79-17747 *	#	US-PATENT-CLASS-219-354	c 27	N83-36220 *	US-PATENT-CLASS-225-103	c 37	N82-32730 *	#
US-PATENT-CLASS-210-71	c 25	N78-10225 *	#	US-PATENT-CLASS-219-364	c 33	N71-16278 *	US-PATENT-CLASS-225-1	c 15	N71-17628 *	#
US-PATENT-CLASS-210-73R	c 85	N79-17747 *	#	US-PATENT-CLASS-219-378	c 33	N71-25353 *	US-PATENT-CLASS-225-2	c 26	N71-14354 *	#
US-PATENT-CLASS-210-748	c 71	N83-35781 *	#	US-PATENT-CLASS-219-388	c 35	N74-15831 *	US-PATENT-CLASS-226-190	c 08	N71-19420 *	#
US-PATENT-CLASS-210-748	c 35	N84-17555 *	#	US-PATENT-CLASS-219-390	c 27	N83-36220 *	US-PATENT-CLASS-226-58	c 14	N71-28935 *	#
US-PATENT-CLASS-210-82	c 34	N75-33342 *	#	US-PATENT-CLASS-219-390	c 35	N86-20750 *	US-PATENT-CLASS-228-103	c 35	N83-35338 *	#
US-PATENT-CLASS-210-96M	c 54	N78-14784 *	#	US-PATENT-CLASS-219-395	c 35	N86-20750 *	US-PATENT-CLASS-228-107	c 37	N79-13364 *	#
US-PATENT-CLASS-210-96M	c 51	N79-10693 *	#	US-PATENT-CLASS-219-396	c 35	N86-20750 *	US-PATENT-CLASS-228-116	c 37	N81-19455 *	#

US-PATENT-CLASS-228-15.1	c 18	N79-11108 *	#	US-PATENT-CLASS-23-255E	c 35	N75-29380 *	#	US-PATENT-CLASS-235-164	c 08	N71-33110 *	#
US-PATENT-CLASS-228-157	c 24	N82-24296 *	#	US-PATENT-CLASS-23-255R	c 25	N76-18245 *	#	US-PATENT-CLASS-235-164	c 08	N73-26175 *	#
US-PATENT-CLASS-228-157	c 24	N84-11214 *	#	US-PATENT-CLASS-23-259	c 15	N71-27372 *	#	US-PATENT-CLASS-235-164	c 60	N74-20836 *	#
US-PATENT-CLASS-228-165	c 35	N84-22930 *	#	US-PATENT-CLASS-23-259	c 15	N72-21465 *	#	US-PATENT-CLASS-235-175	c 08	N71-18602 *	#
US-PATENT-CLASS-228-170	c 24	N81-17170 *	#	US-PATENT-CLASS-23-259	c 37	N74-18123 *	#	US-PATENT-CLASS-235-175	c 08	N71-33110 *	#
US-PATENT-CLASS-228-173	c 18	N79-11108 *	#	US-PATENT-CLASS-23-259	c 51	N77-27677 *	#	US-PATENT-CLASS-235-176	c 08	N70-34787 *	#
US-PATENT-CLASS-228-174	c 24	N81-17170 *	#	US-PATENT-CLASS-23-277C	c 25	N74-33378 *	#	US-PATENT-CLASS-235-181	c 07	N71-21476 *	#
US-PATENT-CLASS-228-181	c 24	N84-11214 *	#	US-PATENT-CLASS-23-277R	c 44	N77-22607 *	#	US-PATENT-CLASS-235-181	c 07	N73-13149 *	#
US-PATENT-CLASS-228-190	c 24	N75-28135 *	#	US-PATENT-CLASS-23-277	c 26	N70-40015 *	#	US-PATENT-CLASS-235-181	c 35	N75-21582 *	#
US-PATENT-CLASS-228-190	c 26	N77-28265 *	#	US-PATENT-CLASS-23-281	c 28	N72-18766 *	#	US-PATENT-CLASS-235-181	c 33	N75-26243 *	#
US-PATENT-CLASS-228-190	c 24	N81-17170 *	#	US-PATENT-CLASS-23-281	c 25	N74-12813 *	#	US-PATENT-CLASS-235-181	c 43	N77-10584 *	#
US-PATENT-CLASS-228-190	c 24	N81-26179 *	#	US-PATENT-CLASS-23-281	c 44	N76-18642 *	#	US-PATENT-CLASS-235-181	c 38	N78-17395 *	#
US-PATENT-CLASS-228-193	c 24	N75-28135 *	#	US-PATENT-CLASS-23-281	c 44	N76-29700 *	#	US-PATENT-CLASS-235-183	c 08	N72-22165 *	#
US-PATENT-CLASS-228-193	c 37	N76-18455 *	#	US-PATENT-CLASS-23-281	c 44	N77-10636 *	#	US-PATENT-CLASS-235-184	c 74	N76-18913 *	#
US-PATENT-CLASS-228-193	c 35	N83-35338 *	#	US-PATENT-CLASS-23-281	c 44	N77-22607 *	#	US-PATENT-CLASS-235-186	c 10	N73-26230 *	#
US-PATENT-CLASS-228-194	c 26	N77-28265 *	#	US-PATENT-CLASS-23-284	c 35	N74-15127 *	#	US-PATENT-CLASS-235-194	c 09	N71-19480 *	#
US-PATENT-CLASS-228-1	c 37	N75-25185 *	#	US-PATENT-CLASS-23-288F	c 25	N74-12813 *	#	US-PATENT-CLASS-235-194	c 08	N72-22165 *	#
US-PATENT-CLASS-228-2.5	c 37	N79-13364 *	#	US-PATENT-CLASS-23-288J	c 25	N74-12813 *	#	US-PATENT-CLASS-235-194	c 10	N73-26230 *	#
US-PATENT-CLASS-228-205	c 37	N81-19455 *	#	US-PATENT-CLASS-23-288R	c 28	N80-10374 *	#	US-PATENT-CLASS-235-197	c 08	N72-22165 *	#
US-PATENT-CLASS-228-206	c 37	N76-18455 *	#	US-PATENT-CLASS-23-288	c 28	N72-18766 *	#	US-PATENT-CLASS-235-197	c 09	N72-23173 *	#
US-PATENT-CLASS-228-212	c 37	N80-23655 *	#	US-PATENT-CLASS-23-292	c 51	N77-27677 *	#	US-PATENT-CLASS-235-197	c 10	N73-20253 *	#
US-PATENT-CLASS-228-212	c 24	N84-11214 *	#	US-PATENT-CLASS-23-293R	c 28	N81-15119 *	#	US-PATENT-CLASS-235-197	c 10	N73-26230 *	#
US-PATENT-CLASS-228-214	c 37	N76-18455 *	#	US-PATENT-CLASS-23-295R	c 76	N85-29800 *	#	US-PATENT-CLASS-235-197	c 60	N75-13539 *	#
US-PATENT-CLASS-228-222	c 37	N80-23655 *	#	US-PATENT-CLASS-23-300	c 28	N80-23471 *	#	US-PATENT-CLASS-235-201	c 10	N71-25899 *	#
US-PATENT-CLASS-228-232	c 26	N77-28265 *	#	US-PATENT-CLASS-23-302A	c 28	N80-23471 *	#	US-PATENT-CLASS-235-61.6	c 01	N71-13411 *	#
US-PATENT-CLASS-228-238	c 37	N76-18455 *	#	US-PATENT-CLASS-23-302R	c 28	N80-23471 *	#	US-PATENT-CLASS-235-61.6	c 15	N71-21179 *	#
US-PATENT-CLASS-228-263.18	c 35	N83-35338 *	#	US-PATENT-CLASS-23-302T	c 28	N80-23471 *	#	US-PATENT-CLASS-235-61INV	c 08	N72-11172 *	#
US-PATENT-CLASS-228-263	c 26	N77-29260 *	#	US-PATENT-CLASS-23-313R	c 71	N85-22104 *	#	US-PATENT-CLASS-235-61INV	c 35	N76-29552 *	#
US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *	#	US-PATENT-CLASS-23-55	c 06	N72-17093 *	#	US-PATENT-CLASS-235-70	c 04	N78-17031 *	#
US-PATENT-CLASS-228-5.1	c 44	N79-24431 *	#	US-PATENT-CLASS-23-88	c 06	N72-17093 *	#	US-PATENT-CLASS-235-78M	c 35	N76-29552 *	#
US-PATENT-CLASS-228-50	c 15	N70-39924 *	#	US-PATENT-CLASS-23-927	c 51	N80-16714 *	#	US-PATENT-CLASS-235-88M	c 35	N76-29552 *	#
US-PATENT-CLASS-228-50	c 15	N70-40204 *	#	US-PATENT-CLASS-23-97	c 06	N72-17093 *	#	US-PATENT-CLASS-235-92CA	c 33	N74-10223 *	#
US-PATENT-CLASS-228-53	c 15	N71-27214 *	#	US-PATENT-CLASS-230-162	c 33	N71-17610 *	#	US-PATENT-CLASS-235-92CA	c 38	N77-17495 *	#
US-PATENT-CLASS-228-57	c 15	N72-22491 *	#	US-PATENT-CLASS-230-121	c 11	N72-22245 *	#	US-PATENT-CLASS-235-92CC	c 08	N72-20176 *	#
US-PATENT-CLASS-228-6	c 44	N79-24431 *	#	US-PATENT-CLASS-230-54	c 11	N72-22245 *	#	US-PATENT-CLASS-235-92CT	c 38	N77-17495 *	#
US-PATENT-CLASS-228-7	c 15	N71-15607 *	#	US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *	#	US-PATENT-CLASS-235-92CV	c 08	N75-25206 *	#
US-PATENT-CLASS-228-8	c 15	N71-23050 *	#	US-PATENT-CLASS-233-11	c 15	N71-18079 *	#	US-PATENT-CLASS-235-92DE	c 08	N72-20176 *	#
US-PATENT-CLASS-228-8	c 37	N79-10421 *	#	US-PATENT-CLASS-233-20RP	c 34	N75-26282 *	#	US-PATENT-CLASS-235-92DM	c 08	N72-20176 *	#
US-PATENT-CLASS-228-9	c 15	N71-20393 *	#	US-PATENT-CLASS-233-25	c 34	N75-26282 *	#	US-PATENT-CLASS-235-92DM	c 33	N74-10223 *	#
US-PATENT-CLASS-229-DIG.11	c 32	N73-13921 *	#	US-PATENT-CLASS-233-46	c 34	N75-26282 *	#	US-PATENT-CLASS-235-92DM	c 33	N75-19519 *	#
US-PATENT-CLASS-23-109	c 04	N72-33072 *	#	US-PATENT-CLASS-233-6	c 34	N75-26282 *	#	US-PATENT-CLASS-235-92DN	c 08	N75-25206 *	#
US-PATENT-CLASS-23-201	c 06	N72-17095 *	#	US-PATENT-CLASS-235-150.27	c 04	N74-13420 *	#	US-PATENT-CLASS-235-92DN	c 38	N77-17495 *	#
US-PATENT-CLASS-23-208	c 15	N69-21922 *	#	US-PATENT-CLASS-235-10.2	c 08	N73-25206 *	#	US-PATENT-CLASS-235-92EA	c 08	N73-25206 *	#
US-PATENT-CLASS-23-208	c 26	N70-36805 *	#	US-PATENT-CLASS-235-150.1	c 08	N71-29033 *	#	US-PATENT-CLASS-235-92EV	c 08	N73-25206 *	#
US-PATENT-CLASS-23-209.1	c 15	N72-20446 *	#	US-PATENT-CLASS-235-150.1	c 08	N72-31226 *	#	US-PATENT-CLASS-235-92FV	c 08	N73-20217 *	#
US-PATENT-CLASS-23-230B	c 25	N75-14844 *	#	US-PATENT-CLASS-235-150.1	c 32	N77-10392 *	#	US-PATENT-CLASS-235-92LG	c 08	N72-20176 *	#
US-PATENT-CLASS-23-230B	c 23	N77-17161 *	#	US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	#	US-PATENT-CLASS-235-92LG	c 33	N75-19519 *	#
US-PATENT-CLASS-23-230B	c 25	N79-14169 *	#	US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	#	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *	#
US-PATENT-CLASS-23-230B	c 51	N80-27067 *	#	US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	#	US-PATENT-CLASS-235-92MT	c 32	N73-26910 *	#
US-PATENT-CLASS-23-230L	c 35	N74-32879 *	#	US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	#	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *	#
US-PATENT-CLASS-23-230M	c 25	N76-18245 *	#	US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	#	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *	#
US-PATENT-CLASS-23-230M	c 23	N77-17161 *	#	US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	#	US-PATENT-CLASS-235-92R	c 08	N72-20176 *	#
US-PATENT-CLASS-23-230PC	c 25	N78-15210 *	#	US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	#	US-PATENT-CLASS-235-92R	c 08	N73-20217 *	#
US-PATENT-CLASS-23-230PC	c 25	N82-12166 *	#	US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	#	US-PATENT-CLASS-235-92R	c 08	N73-25206 *	#
US-PATENT-CLASS-23-230R	c 06	N72-17094 *	#	US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	#	US-PATENT-CLASS-235-92R	c 33	N75-19519 *	#
US-PATENT-CLASS-23-230R	c 17	N73-12547 *	#	US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	#	US-PATENT-CLASS-235-92R	c 38	N77-17495 *	#
US-PATENT-CLASS-23-230R	c 17	N73-27446 *	#	US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	#	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *	#
US-PATENT-CLASS-23-230R	c 25	N76-18245 *	#	US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	#	US-PATENT-CLASS-235-92SH	c 33	N76-14373 *	#
US-PATENT-CLASS-23-230R	c 45	N76-31714 *	#	US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	#	US-PATENT-CLASS-235-92T	c 03	N72-25020 *	#
US-PATENT-CLASS-23-230R	c 23	N77-17161 *	#	US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	#	US-PATENT-CLASS-235-92T	c 08	N73-20217 *	#
US-PATENT-CLASS-23-230	c 06	N71-23527 *	#	US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	#	US-PATENT-CLASS-235-92T	c 33	N75-19519 *	#
US-PATENT-CLASS-23-230	c 06	N72-17095 *	#	US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	#	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *	#
US-PATENT-CLASS-23-231	c 23	N77-17161 *	#	US-PATENT-CLASS-235-151.27	c 08	N73-25206 *	#	US-PATENT-CLASS-235-92	c 08	N71-22897 *	#
US-PATENT-CLASS-23-232C	c 06	N72-17094 *	#	US-PATENT-CLASS-235-151.31	c 10	N73-25240 *	#	US-PATENT-CLASS-235-92	c 08	N71-24891 *	#
US-PATENT-CLASS-23-232C	c 25	N76-18245 *	#	US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	#	US-PATENT-CLASS-235-92	c 10	N71-27137 *	#
US-PATENT-CLASS-23-232C	c 23	N77-17161 *	#	US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	#	US-PATENT-CLASS-235-92	c 14	N71-27215 *	#
US-PATENT-CLASS-23-232E	c 06	N73-16106 *	#	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	#	US-PATENT-CLASS-236-1F	c 35	N81-26431 *	#
US-PATENT-CLASS-23-232E	c 45	N76-31714 *	#	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	#	US-PATENT-CLASS-236-13	c 31	N80-32583 *	#
US-PATENT-CLASS-23-232E	c 25	N78-15210 *	#	US-PATENT-CLASS-235-151	c 37	N74-21056 *	#	US-PATENT-CLASS-236-1	c 33	N71-16357 *	#
US-PATENT-CLASS-23-232E	c 25	N82-12166 *	#	US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	#	US-PATENT-CLASS-236-44C	c 31	N80-32583 *	#
US-PATENT-CLASS-23-232R	c 06	N73-16106 *	#	US-PATENT-CLASS-235-152	c 07	N71-24741 *	#	US-PATENT-CLASS-236-49	c 31	N74-27902 *	#
US-PATENT-CLASS-23-232R	c 45	N76-31714 *	#	US-PATENT-CLASS-235-152	c 08	N72-20176 *	#	US-PATENT-CLASS-236-49	c 31	N80-32583 *	#
US-PATENT-CLASS-23-232R	c 23	N77-17161 *	#	US-PATENT-CLASS-235-152	c 08	N72-22167 *	#	US-PATENT-CLASS-236-68	c 15	N72-12409 *	#
US-PATENT-CLASS-23-232R	c 25	N78-15210 *	#	US-PATENT-CLASS-235-152	c 08	N72-25210 *	#	US-PATENT-CLASS-237-1A	c 44	N76-14802 *	#
US-PATENT-CLASS-23-252R	c 25	N74-12813 *	#	US-PATENT-CLASS-235-152	c 08	N73-12175 *	#	US-PATENT-CLASS-237-1A	c 44	N78-10554 *	#
US-PATENT-CLASS-23-252R	c 25	N79-10162 *	#	US-PATENT-CLASS-235-152	c 09	N73-13209 *	#	US-PATENT-CLASS-237-1A	c 44	N78-15560 *	#
US-PATENT-CLASS-23-252R	c 25	N79-28253 *	#	US-PATENT-CLASS-235-152	c 08	N73-26175 *	#	US-PATENT-CLASS-237-1A	c 44	N78-17460 *	#
US-PATENT-CLASS-23-253A	c 51	N77-27677 *	#	US-PATENT-CLASS-235-152	c 60	N77-14751 *	#	US-PATENT-CLASS-237-1A	c 44	N78-31525 *	#
US-PATENT-CLASS-23-253A	c 54	N78-14784 *	#	US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	#	US-PATENT-CLASS-237-1A	c 44	N79-24433 *	#
US-PATENT-CLASS-23-253PC	c 06	N72-17094 *	#	US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	#	US-PATENT-CLASS-237-60	c 34	N76-17317 *	#
US-PATENT-CLASS-23-253PC	c 37	N74-18123 *	#	US-PATENT-CLASS-235-153	c 08	N71-24633 *	#	US-PATENT-CLASS-238-134	c 85	N74-34672 *	#
US-PATENT-CLASS-23-253R	c 15	N72-21465 *	#	US-PATENT-CLASS-235-153	c 08	N72-22166 *	#	US-PATENT-CLASS-238-1	c 05	N71-28619 *	#
US-PATENT-CLASS-23-253R	c 25	N75-14844 *	#	US-PATENT-CLASS-235-154	c 08	N70-34778 *	#	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *	#
US-PATENT-CLASS-23-253R	c 25	N76-18245 *	#	US-PATENT-CLASS-235-154	c 10	N71-23662 *	#	US-PATENT-CLASS-239-102	c 37	N80-10494 *	#
US-PATENT-CLASS-23-253	c 23	N71-16355 *	#	US-PATENT-CLASS-235-154	c 08	N72-18184 *	#	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *	#
US-PATENT-CLASS-23-253	c 06	N71-26754 *	#	US-PATENT-CLASS-235-154	c 08	N72-25206 *	#	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *	#
US-PATENT-CLASS-23-253	c 06	N72-17095 *	#	US-PATENT-CLASS-235-155	c 08	N71-24890 *	#	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *	#

US-PATENT-CLASS-239-265.15	c 37	N79-22474 *	#	US-PATENT-CLASS-244-1SS	c 73	N75-30876 *	#	US-PATENT-CLASS-244-158R	c 37	N85-34401 *	#
US-PATENT-CLASS-239-265.17	c 07	N74-27490 *	#	US-PATENT-CLASS-244-100	c 15	N70-34850 *	#	US-PATENT-CLASS-244-158	c 37	N76-22540 *	#
US-PATENT-CLASS-239-265.17	c 07	N83-33884 *	#	US-PATENT-CLASS-244-100	c 31	N70-36654 *	#	US-PATENT-CLASS-244-158	c 27	N79-12221 *	#
US-PATENT-CLASS-239-265.17	c 71	N84-14873 *	#	US-PATENT-CLASS-244-100	c 31	N70-36845 *	#	US-PATENT-CLASS-244-159	c 18	N79-11108 *	#
US-PATENT-CLASS-239-265.19	c 28	N71-21493 *	#	US-PATENT-CLASS-244-100	c 02	N70-41589 *	#	US-PATENT-CLASS-244-159	c 07	N83-20944 *	#
US-PATENT-CLASS-239-265.19	c 28	N72-11708 *	#	US-PATENT-CLASS-244-103R	c 37	N81-24443 *	#	US-PATENT-CLASS-244-159	c 31	N83-31895 *	#
US-PATENT-CLASS-239-265.25	c 07	N78-27121 *	#	US-PATENT-CLASS-244-103	c 02	N70-36825 *	#	US-PATENT-CLASS-244-159	c 05	N75-25914 *	#
US-PATENT-CLASS-239-265.25	c 09	N78-31129 *	#	US-PATENT-CLASS-244-110B	c 07	N82-26293 *	#	US-PATENT-CLASS-244-160	c 27	N79-12221 *	#
US-PATENT-CLASS-239-265.33	c 07	N78-27121 *	#	US-PATENT-CLASS-244-110C	c 37	N82-18601 *	#	US-PATENT-CLASS-244-160	c 43	N81-17499 *	#
US-PATENT-CLASS-239-265.33	c 07	N80-32392 *	#	US-PATENT-CLASS-244-113	c 02	N70-37939 *	#	US-PATENT-CLASS-244-160	c 14	N81-26161 *	#
US-PATENT-CLASS-239-265.39	c 07	N79-14097 *	#	US-PATENT-CLASS-244-113	c 31	N71-25434 *	#	US-PATENT-CLASS-244-160	c 27	N82-24339 *	#
US-PATENT-CLASS-239-265.43	c 28	N71-16224 *	#	US-PATENT-CLASS-244-113	c 02	N77-10001 *	#	US-PATENT-CLASS-244-160	c 27	N82-29456 *	#
US-PATENT-CLASS-239-265.43	c 28	N72-11708 *	#	US-PATENT-CLASS-244-113	c 37	N82-16408 *	#	US-PATENT-CLASS-244-161	c 18	N76-14186 *	#
US-PATENT-CLASS-239-288	c 37	N79-22474 *	#	US-PATENT-CLASS-244-113	c 08	N85-35200 *	#	US-PATENT-CLASS-244-161	c 37	N76-22540 *	#
US-PATENT-CLASS-239-288	c 37	N85-29283 *	#	US-PATENT-CLASS-244-114R	c 04	N82-16059 *	#	US-PATENT-CLASS-244-161	c 37	N77-23483 *	#
US-PATENT-CLASS-239-302	c 37	N80-10494 *	#	US-PATENT-CLASS-244-114	c 21	N72-22619 *	#	US-PATENT-CLASS-244-161	c 15	N78-25119 *	#
US-PATENT-CLASS-239-322	c 37	N85-29283 *	#	US-PATENT-CLASS-244-115	c 18	N83-29303 *	#	US-PATENT-CLASS-244-161	c 37	N80-14398 *	#
US-PATENT-CLASS-239-327	c 37	N85-29283 *	#	US-PATENT-CLASS-244-117A	c 33	N73-25952 *	#	US-PATENT-CLASS-244-161	c 37	N81-14320 *	#
US-PATENT-CLASS-239-375	c 37	N85-29283 *	#	US-PATENT-CLASS-244-117A	c 34	N76-17317 *	#	US-PATENT-CLASS-244-161	c 37	N81-27519 *	#
US-PATENT-CLASS-239-402.5	c 07	N85-35195 *	#	US-PATENT-CLASS-244-117A	c 37	N76-19437 *	#	US-PATENT-CLASS-244-161	c 18	N83-29303 *	#
US-PATENT-CLASS-239-416	c 15	N69-23185 *	#	US-PATENT-CLASS-244-117A	c 34	N77-18382 *	#	US-PATENT-CLASS-244-161	c 18	N84-22605 *	#
US-PATENT-CLASS-239-416	c 15	N71-17654 *	#	US-PATENT-CLASS-244-117A	c 05	N81-26114 *	#	US-PATENT-CLASS-244-162	c 18	N75-19329 *	#
US-PATENT-CLASS-239-418	c 28	N72-23809 *	#	US-PATENT-CLASS-244-117A	c 27	N84-27886 *	#	US-PATENT-CLASS-244-162	c 18	N76-17185 *	#
US-PATENT-CLASS-239-424	c 15	N72-25455 *	#	US-PATENT-CLASS-244-117	c 31	N70-33242 *	#	US-PATENT-CLASS-244-163	c 37	N76-19437 *	#
US-PATENT-CLASS-239-426	c 34	N84-12406 *	#	US-PATENT-CLASS-244-117	c 33	N72-17947 *	#	US-PATENT-CLASS-244-163	c 24	N79-25142 *	#
US-PATENT-CLASS-239-433	c 28	N72-23809 *	#	US-PATENT-CLASS-244-118.1	c 08	N82-32373 *	#	US-PATENT-CLASS-244-163	c 34	N79-31523 *	#
US-PATENT-CLASS-239-499	c 34	N82-13376 *	#	US-PATENT-CLASS-244-118.1	c 18	N85-29991 *	#	US-PATENT-CLASS-244-163	c 05	N81-26114 *	#
US-PATENT-CLASS-239-543	c 28	N72-23809 *	#	US-PATENT-CLASS-244-118.1	c 37	N85-34401 *	#	US-PATENT-CLASS-244-163	c 37	N82-16408 *	#
US-PATENT-CLASS-239-562	c 43	N81-26509 *	#	US-PATENT-CLASS-244-119	c 02	N81-14968 *	#	US-PATENT-CLASS-244-163	c 27	N82-29456 *	#
US-PATENT-CLASS-239-568	c 37	N84-16561 *	#	US-PATENT-CLASS-244-119	c 24	N82-24296 *	#	US-PATENT-CLASS-244-163	c 35	N85-29214 *	#
US-PATENT-CLASS-239-589	c 34	N82-13376 *	#	US-PATENT-CLASS-244-119	c 24	N82-26384 *	#	US-PATENT-CLASS-244-165	c 15	N76-14158 *	#
US-PATENT-CLASS-239-590	c 37	N85-29283 *	#	US-PATENT-CLASS-244-119	c 24	N84-11214 *	#	US-PATENT-CLASS-244-165	c 35	N77-20399 *	#
US-PATENT-CLASS-239-591	c 43	N81-26509 *	#	US-PATENT-CLASS-244-12.5	c 08	N81-19130 *	#	US-PATENT-CLASS-244-165	c 35	N80-21719 *	#
US-PATENT-CLASS-239-601	c 34	N82-13376 *	#	US-PATENT-CLASS-244-121	c 27	N79-12221 *	#	US-PATENT-CLASS-244-167	c 15	N78-25119 *	#
US-PATENT-CLASS-239-690	c 28	N82-18411 *	#	US-PATENT-CLASS-244-121	c 24	N79-25142 *	#	US-PATENT-CLASS-244-168	c 04	N82-23231 *	#
US-PATENT-CLASS-24-126	c 15	N71-22994 *	#	US-PATENT-CLASS-244-121	c 15	N79-26100 *	#	US-PATENT-CLASS-244-169	c 15	N77-10113 *	#
US-PATENT-CLASS-24-134R	c 15	N73-25512 *	#	US-PATENT-CLASS-244-121	c 27	N82-24339 *	#	US-PATENT-CLASS-244-169	c 18	N83-28064 *	#
US-PATENT-CLASS-24-205.17	c 15	N71-25975 *	#	US-PATENT-CLASS-244-122	c 27	N82-29456 *	#	US-PATENT-CLASS-244-16	c 02	N70-41863 *	#
US-PATENT-CLASS-24-211N	c 15	N72-11385 *	#	US-PATENT-CLASS-244-122	c 05	N71-20718 *	#	US-PATENT-CLASS-244-17.13	c 02	N73-19004 *	#
US-PATENT-CLASS-24-211	c 15	N71-17653 *	#	US-PATENT-CLASS-244-123	c 24	N77-28225 *	#	US-PATENT-CLASS-244-17.13	c 08	N79-23097 *	#
US-PATENT-CLASS-24-214	c 31	N83-31895 *	#	US-PATENT-CLASS-244-123	c 24	N82-24296 *	#	US-PATENT-CLASS-244-17.25	c 05	N81-19087 *	#
US-PATENT-CLASS-24-263	c 15	N71-21076 *	#	US-PATENT-CLASS-244-123	c 24	N82-26384 *	#	US-PATENT-CLASS-244-170	c 35	N80-21719 *	#
US-PATENT-CLASS-24-263	c 15	N71-26162 *	#	US-PATENT-CLASS-244-123	c 24	N84-11214 *	#	US-PATENT-CLASS-244-170	c 18	N83-28064 *	#
US-PATENT-CLASS-24-304	c 27	N85-20125 *	#	US-PATENT-CLASS-244-127	c 34	N74-23039 *	#	US-PATENT-CLASS-244-171	c 15	N77-10113 *	#
US-PATENT-CLASS-24-447	c 27	N85-20125 *	#	US-PATENT-CLASS-244-12	c 02	N70-33332 *	#	US-PATENT-CLASS-244-171	c 35	N77-20399 *	#
US-PATENT-CLASS-24-450	c 27	N85-20125 *	#	US-PATENT-CLASS-244-130	c 02	N77-10001 *	#	US-PATENT-CLASS-244-172	c 18	N76-17185 *	#
US-PATENT-CLASS-24-560	c 52	N84-28388 *	#	US-PATENT-CLASS-244-130	c 02	N81-14968 *	#	US-PATENT-CLASS-244-172	c 16	N84-27784 *	#
US-PATENT-CLASS-24-693	c 27	N85-20125 *	#	US-PATENT-CLASS-244-130	c 37	N81-24443 *	#	US-PATENT-CLASS-244-172	c 18	N84-27787 *	#
US-PATENT-CLASS-240-1.2	c 11	N70-33329 *	#	US-PATENT-CLASS-244-132	c 24	N82-26384 *	#	US-PATENT-CLASS-244-172	c 05	N86-19310 *	#
US-PATENT-CLASS-240-11.2	c 09	N71-26787 *	#	US-PATENT-CLASS-244-132	c 24	N82-32417 *	#	US-PATENT-CLASS-244-173	c 44	N75-32581 *	#
US-PATENT-CLASS-240-11.4	c 09	N71-26787 *	#	US-PATENT-CLASS-244-134-D	c 33	N86-20671 *	#	US-PATENT-CLASS-244-173	c 37	N81-15364 *	#
US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *	#	US-PATENT-CLASS-244-135R	c 34	N76-17317 *	#	US-PATENT-CLASS-244-173	c 07	N83-20944 *	#
US-PATENT-CLASS-240-41B	c 36	N75-27364 *	#	US-PATENT-CLASS-244-135R	c 20	N80-10278 *	#	US-PATENT-CLASS-244-175	c 04	N82-23231 *	#
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US-PATENT-CLASS-240-47	c 34	N74-23066 *	#	US-PATENT-CLASS-244-135	c 14	N73-27378 *	#	US-PATENT-CLASS-244-182	c 08	N81-26152 *	#
US-PATENT-CLASS-240-51.11	c 09	N71-26787 *	#	US-PATENT-CLASS-244-137P	c 31	N73-26876 *	#	US-PATENT-CLASS-244-190	c 04	N82-23231 *	#
US-PATENT-CLASS-241-95	c 37	N84-16561 *	#	US-PATENT-CLASS-244-137P	c 37	N76-22540 *	#	US-PATENT-CLASS-244-194	c 60	N82-29013 *	#
US-PATENT-CLASS-242-107	c 33	N86-20669 *	#	US-PATENT-CLASS-244-137P	c 01	N83-35992 *	#	US-PATENT-CLASS-244-195	c 08	N79-23097 *	#
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US-PATENT-CLASS-242-187	c 37	N77-14479 *	#	US-PATENT-CLASS-244-138	c 01	N69-39981 *	#	US-PATENT-CLASS-244-199	c 07	N85-35194 *	#
US-PATENT-CLASS-242-192	c 14	N71-23698 *	#	US-PATENT-CLASS-244-138	c 02	N70-41630 *	#	US-PATENT-CLASS-244-1	c 31	N69-27499 *	#
US-PATENT-CLASS-242-193	c 37	N77-14479 *	#	US-PATENT-CLASS-244-138	c 31	N71-16085 *	#	US-PATENT-CLASS-244-1	c 03	N70-33343 *	#
US-PATENT-CLASS-242-204	c 37	N77-14479 *	#	US-PATENT-CLASS-244-138	c 31	N71-25434 *	#	US-PATENT-CLASS-244-1	c 33	N70-33344 *	#
US-PATENT-CLASS-242-210	c 37	N77-14479 *	#	US-PATENT-CLASS-244-138	c 31	N71-28851 *	#	US-PATENT-CLASS-244-1	c 03	N70-34157 *	#
US-PATENT-CLASS-242-54-R	c 33	N86-20669 *	#	US-PATENT-CLASS-244-139	c 31	N73-13898 *	#	US-PATENT-CLASS-244-1	c 31	N70-34176 *	#
US-PATENT-CLASS-242-54	c 15	N72-18477 *	#	US-PATENT-CLASS-244-139	c 02	N76-16014 *	#	US-PATENT-CLASS-244-1	c 21	N70-34295 *	#
US-PATENT-CLASS-242-55.19	c 14	N70-41647 *	#	US-PATENT-CLASS-244-139	c 05	N85-21147 *	#	US-PATENT-CLASS-244-1	c 31	N70-34296 *	#
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US-PATENT-CLASS-244-12.2	c 05	N82-26277 *	#	US-PATENT-CLASS-244-13	c 02	N73-26005 *	#	US-PATENT-CLASS-244-1	c 33	N70-36617 *	#
US-PATENT-CLASS-244-1SS	c 03	N72-20031 *	#	US-PATENT-CLASS-244-13	c 05	N75-25914 *	#	US-PATENT-CLASS-244-1	c 21	N70-36943 *	#
US-PATENT-CLASS-244-1.55	c 03	N73-20040 *	#	US-PATENT-CLASS-244-13	c 05	N84-12154 *	#	US-PATENT-CLASS-244-1	c 31	N70-37924 *	#
US-PATENT-CLASS-244-1A	c 33	N77-10429 *	#	US-PATENT-CLASS-244-140	c 02	N70-38009 *	#	US-PATENT-CLASS-244-1	c 31	N70-37938 *	#
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US-PATENT-CLASS-244-1SA	c 21	N72-21624 *	#	US-PATENT-CLASS-244-147	c 05	N85-21147 *	#	US-PATENT-CLASS-244-1	c 31	N70-38676 *	#
US-PATENT-CLASS-244-1SA	c 21	N72-25595 *	#	US-PATENT-CLASS-244-14	c 14	N70-33322 *	#	US-PATENT-CLASS-244-1	c 30	N70-40016 *	#
US-PATENT-CLASS-244-1SA	c 03	N73-20039 *	#	US-PATENT-CLASS-244-15.5	c 31	N72-18859 *	#	US-PATENT-CLASS-244-1	c 31	N70-41373 *	#
US-PATENT-CLASS-244-1SA	c 15	N73-25513 *	#	US-PATENT-CLASS-244-150	c 15	N71-24600 *	#	US-PATENT-CLASS-244-1	c 31	N70-41588 *	#
US-PATENT-CLASS-244-1SA	c 21	N73-30640 *	#	US-PATENT-CLASS-244-151R	c 33	N74-22865 *	#	US-PATENT-CLASS-244-1	c 31	N70-41631 *	#
US-PATENT-CLASS-244-1SA	c 19	N74-15089 *	#	US-PATENT-CLASS-244-152	c 02	N70-36804 *	#	US-PATENT-CLASS-244-1	c 31	N70-41855 *	#
US-PATENT-CLASS-244-1SA	c 35	N74-28097 *	#	US-PATENT-CLASS-244-155	c 30	N73-12884 *	#	US-PATENT-CLASS-244-1	c 21	N70-41856 *	#
US-PATENT-CLASS-244-1SB	c 15	N73-12486 *	#	US-PATENT-CLASS-244-155	c 31	N73-14854 *	#	US-PATENT-CLASS-244-1	c 31	N70-42075 *	#
US-PATENT-CLASS-244-1SC	c 31	N73-32750 *	#	US-PATENT-CLASS-244-158-A	c 37	N85-30335 *	#	US-PATENT-CLASS-244-1	c 03	N71-11058 *	#
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US-PATENT-CLASS-244-1SD	c 31	N73-26876 *	#	US-PATENT-CLASS-244-158-R	c 05	N86-19310 *	#	US-PATENT-CLASS-244-1	c 21	N71-14132 *	#
US-PATENT-CLASS-244-1SD	c 37	N74-27903 *	#	US-PATENT-CLASS-244-158-R	c 18	N86-20469 *	#	US-PATENT-CLASS-244-1	c 21	N71-14159 *	#
US-PATENT											

US-PATENT-CLASS-244-1	c 15	N71-17693 *	US-PATENT-CLASS-244-53B	c 02	N74-20646 *	US-PATENT-CLASS-25-156	c 15	N71-16076 *
US-PATENT-CLASS-244-1	c 31	N71-17729 *	US-PATENT-CLASS-244-53B	c 07	N75-24736 *	US-PATENT-CLASS-250-105	c 14	N70-40240 *
US-PATENT-CLASS-244-1	c 15	N71-19214 *	US-PATENT-CLASS-244-53B	c 07	N77-18154 *	US-PATENT-CLASS-250-105	c 14	N73-30389 *
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US-PATENT-CLASS-244-1	c 31	N71-20396 *	US-PATENT-CLASS-244-53B	c 85	N82-33288 *	US-PATENT-CLASS-250-199	c 07	N71-12389 *
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US-PATENT-CLASS-244-1	c 21	N71-21708 *	US-PATENT-CLASS-244-54	c 07	N78-18066 *	US-PATENT-CLASS-250-199	c 16	N71-27183 *
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US-PATENT-CLASS-244-1	c 33	N71-22792 *	US-PATENT-CLASS-244-55	c 02	N73-26005 *	US-PATENT-CLASS-250-199	c 16	N73-16536 *
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US-PATENT-CLASS-244-1	c 31	N71-23009 *	US-PATENT-CLASS-244-55	c 07	N85-35194 *	US-PATENT-CLASS-250-199	c 74	N76-30053 *
US-PATENT-CLASS-244-1	c 14	N71-23040 *	US-PATENT-CLASS-244-57	c 15	N71-26611 *	US-PATENT-CLASS-250-199	c 74	N77-26942 *
US-PATENT-CLASS-244-1	c 31	N71-23912 *	US-PATENT-CLASS-244-63	c 09	N77-19076 *	US-PATENT-CLASS-250-199	c 32	N77-28346 *
US-PATENT-CLASS-244-1	c 31	N71-24315 *	US-PATENT-CLASS-244-63	c 14	N81-26161 *	US-PATENT-CLASS-250-199	c 60	N77-32731 *
US-PATENT-CLASS-244-1	c 15	N71-24600 *	US-PATENT-CLASS-244-63	c 16	N84-27784 *	US-PATENT-CLASS-250-199	c 74	N78-14889 *
US-PATENT-CLASS-244-1	c 05	N71-24728 *	US-PATENT-CLASS-244-63	c 18	N84-27787 *	US-PATENT-CLASS-250-201	c 14	N70-40238 *
US-PATENT-CLASS-244-1	c 33	N71-25353 *	US-PATENT-CLASS-244-75-R	c 08	N85-35200 *	US-PATENT-CLASS-250-201	c 35	N75-15014 *
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US-PATENT-CLASS-244-1	c 31	N71-26537 *	US-PATENT-CLASS-244-75R	c 05	N75-12930 *	US-PATENT-CLASS-250-203R	c 14	N72-27409 *
US-PATENT-CLASS-244-1	c 15	N71-26611 *	US-PATENT-CLASS-244-75R	c 05	N85-21147 *	US-PATENT-CLASS-250-203R	c 14	N73-25462 *
US-PATENT-CLASS-244-1	c 28	N71-27095 *	US-PATENT-CLASS-244-76C	c 02	N73-26004 *	US-PATENT-CLASS-250-203R	c 14	N73-28490 *
US-PATENT-CLASS-244-1	c 21	N71-27324 *	US-PATENT-CLASS-244-76	c 21	N70-34539 *	US-PATENT-CLASS-250-203R	c 21	N73-30640 *
US-PATENT-CLASS-244-1	c 33	N71-28903 *	US-PATENT-CLASS-244-76	c 02	N71-13422 *	US-PATENT-CLASS-250-203R	c 19	N74-15089 *
US-PATENT-CLASS-244-1	c 15	N71-28936 *	US-PATENT-CLASS-244-76	c 02	N71-20570 *	US-PATENT-CLASS-250-203R	c 89	N74-30886 *
US-PATENT-CLASS-244-1	c 31	N71-29050 *	US-PATENT-CLASS-244-77A	c 04	N74-13420 *	US-PATENT-CLASS-250-203R	c 35	N77-20401 *
US-PATENT-CLASS-244-1	c 31	N71-33160 *	US-PATENT-CLASS-244-77B	c 04	N74-13420 *	US-PATENT-CLASS-250-203R	c 74	N77-22951 *
US-PATENT-CLASS-244-212	c 05	N84-22551 *	US-PATENT-CLASS-244-77D	c 02	N73-19004 *	US-PATENT-CLASS-250-203R	c 44	N81-24520 *
US-PATENT-CLASS-244-213	c 08	N82-24205 *	US-PATENT-CLASS-244-77F	c 02	N73-26004 *	US-PATENT-CLASS-250-203R	c 32	N83-18975 *
US-PATENT-CLASS-244-214	c 08	N85-19985 *	US-PATENT-CLASS-244-77G	c 02	N73-26004 *	US-PATENT-CLASS-250-203R	c 47	N83-32232 *
US-PATENT-CLASS-244-215	c 05	N84-22551 *	US-PATENT-CLASS-244-77	c 32	N71-23971 *	US-PATENT-CLASS-250-203X	c 16	N72-13437 *
US-PATENT-CLASS-244-216	c 05	N84-22551 *	US-PATENT-CLASS-244-78	c 08	N82-24205 *	US-PATENT-CLASS-250-203	c 14	N69-27432 *
US-PATENT-CLASS-244-217	c 37	N82-16408 *	US-PATENT-CLASS-244-79	c 04	N76-26175 *	US-PATENT-CLASS-250-203	c 14	N69-27485 *
US-PATENT-CLASS-244-218	c 05	N78-32086 *	US-PATENT-CLASS-244-82	c 05	N79-12061 *	US-PATENT-CLASS-250-203	c 07	N69-39736 *
US-PATENT-CLASS-244-218	c 08	N79-14108 *	US-PATENT-CLASS-244-83G	c 08	N79-23097 *	US-PATENT-CLASS-250-203	c 14	N70-34158 *
US-PATENT-CLASS-244-219	c 05	N84-22551 *	US-PATENT-CLASS-244-83R	c 05	N75-12930 *	US-PATENT-CLASS-250-203	c 21	N70-35089 *
US-PATENT-CLASS-244-226	c 08	N82-24205 *	US-PATENT-CLASS-244-83	c 21	N70-33279 *	US-PATENT-CLASS-250-203	c 14	N70-40239 *
US-PATENT-CLASS-244-23A	c 21	N72-25595 *	US-PATENT-CLASS-244-83	c 15	N71-23255 *	US-PATENT-CLASS-250-203	c 21	N71-10678 *
US-PATENT-CLASS-244-23C	c 05	N82-26277 *	US-PATENT-CLASS-244-83	c 31	N71-33160 *	US-PATENT-CLASS-250-203	c 21	N71-10771 *
US-PATENT-CLASS-244-23D	c 34	N76-18364 *	US-PATENT-CLASS-244-83	c 08	N74-10942 *	US-PATENT-CLASS-250-203	c 21	N71-15642 *
US-PATENT-CLASS-244-23	c 02	N71-11039 *	US-PATENT-CLASS-244-87	c 08	N81-19130 *	US-PATENT-CLASS-250-203	c 14	N71-19568 *
US-PATENT-CLASS-244-2	c 14	N81-26161 *	US-PATENT-CLASS-244-90R	c 08	N74-30421 *	US-PATENT-CLASS-250-203	c 14	N71-23269 *
US-PATENT-CLASS-244-2	c 18	N84-27787 *	US-PATENT-CLASS-244-90R	c 05	N79-12061 *	US-PATENT-CLASS-250-203	c 14	N71-23797 *
US-PATENT-CLASS-244-3.14	c 31	N71-17691 *	US-PATENT-CLASS-244-90R	c 08	N79-14108 *	US-PATENT-CLASS-250-203	c 14	N72-22444 *
US-PATENT-CLASS-244-3.16	c 19	N74-15089 *	US-PATENT-CLASS-244-90R	c 08	N85-19985 *	US-PATENT-CLASS-250-203	c 14	N73-30393 *
US-PATENT-CLASS-244-3.21	c 30	N72-17873 *	US-PATENT-CLASS-244-90	c 02	N71-27088 *	US-PATENT-CLASS-250-203	c 35	N75-23910 *
US-PATENT-CLASS-244-3.21	c 15	N76-14158 *	US-PATENT-CLASS-244-91	c 08	N74-30421 *	US-PATENT-CLASS-250-204	c 36	N74-21091 *
US-PATENT-CLASS-244-3.21	c 35	N77-20399 *	US-PATENT-CLASS-244-91	c 05	N84-12154 *	US-PATENT-CLASS-250-205	c 14	N72-27411 *
US-PATENT-CLASS-244-3.22	c 31	N71-17629 *	US-PATENT-CLASS-244-93	c 05	N82-26277 *	US-PATENT-CLASS-250-205	c 09	N73-14214 *
US-PATENT-CLASS-244-3.22	c 28	N72-22769 *	US-PATENT-CLASS-247-171	c 35	N75-23910 *	US-PATENT-CLASS-250-205	c 36	N74-13205 *
US-PATENT-CLASS-244-3.22	c 20	N76-21275 *	US-PATENT-CLASS-248-119	c 11	N70-35383 *	US-PATENT-CLASS-250-206	c 10	N71-20782 *
US-PATENT-CLASS-244-31	c 02	N71-11037 *	US-PATENT-CLASS-248-14	c 15	N72-17454 *	US-PATENT-CLASS-250-207	c 14	N72-17328 *
US-PATENT-CLASS-244-31	c 31	N71-16081 *	US-PATENT-CLASS-248-16	c 18	N74-27397 *	US-PATENT-CLASS-250-207	c 14	N73-32317 *
US-PATENT-CLASS-244-31	c 34	N74-23039 *	US-PATENT-CLASS-248-178	c 15	N70-41310 *	US-PATENT-CLASS-250-207	c 33	N74-27682 *
US-PATENT-CLASS-244-327	c 08	N74-30421 *	US-PATENT-CLASS-248-178	c 37	N78-27425 *	US-PATENT-CLASS-250-208	c 14	N72-20379 *
US-PATENT-CLASS-244-32	c 02	N73-13008 *	US-PATENT-CLASS-248-183	c 14	N71-26627 *	US-PATENT-CLASS-250-209	c 07	N69-39980 *
US-PATENT-CLASS-244-34A	c 05	N82-26277 *	US-PATENT-CLASS-248-183	c 15	N72-11386 *	US-PATENT-CLASS-250-209	c 20	N71-16340 *
US-PATENT-CLASS-244-35A	c 02	N84-11136 *	US-PATENT-CLASS-248-186	c 37	N78-27425 *	US-PATENT-CLASS-250-209	c 10	N72-17173 *
US-PATENT-CLASS-244-35R	c 02	N76-22154 *	US-PATENT-CLASS-248-188.4	c 15	N72-27484 *	US-PATENT-CLASS-250-209	c 14	N72-25409 *
US-PATENT-CLASS-244-35R	c 02	N84-11136 *	US-PATENT-CLASS-248-188.9	c 31	N70-34159 *	US-PATENT-CLASS-250-209	c 14	N73-16483 *
US-PATENT-CLASS-244-35R	c 02	N84-28732 *	US-PATENT-CLASS-248-18	c 14	N69-27486 *	US-PATENT-CLASS-250-209	c 14	N73-26432 *
US-PATENT-CLASS-244-35	c 01	N71-13410 *	US-PATENT-CLASS-248-18	c 15	N72-11391 *	US-PATENT-CLASS-250-209	c 14	N73-28490 *
US-PATENT-CLASS-244-40R	c 02	N76-22154 *	US-PATENT-CLASS-248-20	c 15	N72-11391 *	US-PATENT-CLASS-250-209	c 21	N73-30640 *
US-PATENT-CLASS-244-42CG	c 33	N77-10429 *	US-PATENT-CLASS-248-228	c 37	N84-16560 *	US-PATENT-CLASS-250-209	c 44	N81-24520 *
US-PATENT-CLASS-244-42DA	c 05	N75-25914 *	US-PATENT-CLASS-248-22	c 19	N76-22284 *	US-PATENT-CLASS-250-211J	c 09	N72-17152 *
US-PATENT-CLASS-244-42	c 02	N70-42016 *	US-PATENT-CLASS-248-23	c 18	N74-27397 *	US-PATENT-CLASS-250-211J	c 09	N73-14214 *
US-PATENT-CLASS-244-42	c 02	N71-26110 *	US-PATENT-CLASS-248-278	c 15	N72-11386 *	US-PATENT-CLASS-250-211J	c 35	N74-15090 *
US-PATENT-CLASS-244-43	c 02	N70-33255 *	US-PATENT-CLASS-248-27	c 15	N71-20813 *	US-PATENT-CLASS-250-211K	c 74	N77-22951 *
US-PATENT-CLASS-244-43	c 02	N71-11043 *	US-PATENT-CLASS-248-317	c 11	N69-27466 *	US-PATENT-CLASS-250-211K	c 44	N80-18552 *
US-PATENT-CLASS-244-44	c 02	N71-11038 *	US-PATENT-CLASS-248-346	c 14	N70-39898 *	US-PATENT-CLASS-250-211R	c 36	N75-19652 *
US-PATENT-CLASS-244-45A	c 05	N78-32086 *	US-PATENT-CLASS-248-358R	c 37	N75-18573 *	US-PATENT-CLASS-250-211R	c 35	N75-23910 *
US-PATENT-CLASS-244-45R	c 05	N84-12154 *	US-PATENT-CLASS-248-358R	c 19	N76-22284 *	US-PATENT-CLASS-250-212	c 03	N71-23354 *
US-PATENT-CLASS-244-45	c 02	N71-12243 *	US-PATENT-CLASS-248-358	c 15	N70-40156 *	US-PATENT-CLASS-250-212	c 03	N73-20040 *
US-PATENT-CLASS-244-46	c 02	N70-33266 *	US-PATENT-CLASS-248-358	c 23	N71-15673 *	US-PATENT-CLASS-250-212	c 09	N73-32109 *
US-PATENT-CLASS-244-46	c 02	N70-33286 *	US-PATENT-CLASS-248-358	c 15	N71-24694 *	US-PATENT-CLASS-250-213VT	c 74	N78-18905 *
US-PATENT-CLASS-244-46	c 02	N70-34178 *	US-PATENT-CLASS-248-363	c 37	N78-17383 *	US-PATENT-CLASS-250-214AL	c 74	N79-12890 *
US-PATENT-CLASS-244-46	c 02	N70-34858 *	US-PATENT-CLASS-248-360	c 15	N71-17649 *	US-PATENT-CLASS-250-214A	c 33	N77-14335 *
US-PATENT-CLASS-244-46	c 31	N70-38010 *	US-PATENT-CLASS-248-361	c 05	N71-28619 *	US-PATENT-CLASS-250-214R	c 14	N73-28490 *
US-PATENT-CLASS-244-46	c 02	N70-38011 *	US-PATENT-CLASS-248-362	c 37	N76-21554 *	US-PATENT-CLASS-250-214R	c 74	N79-12890 *
US-PATENT-CLASS-244-46	c 02	N71-11041 *	US-PATENT-CLASS-248-363	c 37	N76-21554 *	US-PATENT-CLASS-250-214	c 14	N73-25462 *
US-PATENT-CLASS-244-46	c 02	N73-26005 *	US-PATENT-CLASS-248-425	c 37	N82-21587 *	US-PATENT-CLASS-250-214	c 14	N73-25462 *
US-PATENT-CLASS-244-46	c 05	N76-29217 *	US-PATENT-CLASS-248-487	c 15	N72-11386 *	US-PATENT-CLASS-250-214	c 35	N74-15090 *
US-PATENT-CLASS-244-46	c 05	N78-32086 *	US-PATENT-CLASS-248-503	c 18	N85-29991 *	US-PATENT-CLASS-250-214	c 33	N82-28545 *
US-PATENT-CLASS-244-46	c 08	N79-14108 *	US-PATENT-CLASS-248-550	c 37	N85-34401 *	US-PATENT-CLASS-250-215	c 14	N73-16483 *
US-PATENT-CLASS-244-48	c 05	N79-12061 *	US-PATENT-CLASS-248-555	c 18	N85-29991 *	US-PATENT-CLASS-250-216	c 74	N79-34011 *
US-PATENT-CLASS-244-48	c 05	N82-28279 *	US-PATENT-CLASS-248-636	c 35	N83-32026 *	US-PATENT-CLASS-250-216	c 74	N82-24072 *
US-PATENT-CLASS-244-49	c 43	N81-17499 *	US-PATENT-CLASS-248-638	c 35	N83-32026 *	US-PATENT-CLASS-250-217F	c 14	N73-16484 *
US-PATENT-CLASS-244-4	c 05	N69-21380 *	US-PATENT-CLASS-248	c 25	N79-28253 *	US-PATENT-CLASS-250-217R	c 14	N73-19419 *
US-PATENT-CLASS-244-4	c 05	N71-12336 *	US-PATENT-CLASS-249-144	c 31	N75-13111 *	US-PATENT-CLASS-250-217SS	c 09	N73-14214 *
US-PATENT-CLASS-244-4	c 28	N71-27585 *	US-PATENT-CLASS-249-145	c 31	N74-32920 *	US-PATENT-CLASS-250-217SS	c 36	N74-15145 *
US-PATENT-CLASS-244-50	c 02	N70-34160 *	US-PATENT-CLASS-249-145	c 31	N75-13111 *	US-PATENT-CLASS-250-217	c 14	N69-39898 *
US-PATENT-CLASS-244-51	c 02	N70-34856 *	US-PATENT-CLASS-249-184	c 31	N74-32920 *	US-PATENT-CLASS-250-217	c 14	N73-16483 *
US-PATENT-CLASS-244-52	c 08	N81-19130 *	US-PATENT-CLASS-249-59	c 31	N75-13111 *	US-PATENT-CLASS-250-217	c 36	N74-13205 *
US-PATENT-CLASS-244-53A	c 07	N78-18066 *	US-PATENT-CLASS-249-83	c 31	N74-32920 *	US-PATENT-CLASS-250-218	c 14	N71-22996 *
			US-PATENT-CLASS-249-95	c 31	N74-32920 *	US-PATENT-CLASS-250-218	c 14	N71-28994 *

US-PATENT-CLASS-250-218	c 74	N78-33913 *	#	US-PATENT-CLASS-250-339	c 35	N84-33766 *	#	US-PATENT-CLASS-250-423	c 35	N83-27184 *	#
US-PATENT-CLASS-250-219DF	c 91	N74-13130 *	#	US-PATENT-CLASS-250-339	c 36	N85-21631 *	#	US-PATENT-CLASS-250-426	c 33	N85-21491 *	#
US-PATENT-CLASS-250-219TH	c 26	N73-26751 *	#	US-PATENT-CLASS-250-339	c 36	N85-29264 *	#	US-PATENT-CLASS-250-427	c 72	N80-27163 *	#
US-PATENT-CLASS-250-219	c 14	N71-28993 *	#	US-PATENT-CLASS-250-340	c 35	N76-29551 *	#	US-PATENT-CLASS-250-429	c 25	N76-29379 *	#
US-PATENT-CLASS-250-221	c 33	N82-28545 *	#	US-PATENT-CLASS-250-340	c 74	N83-19597 *	#	US-PATENT-CLASS-250-429	c 25	N78-27226 *	#
US-PATENT-CLASS-250-221	c 74	N85-22139 *	#	US-PATENT-CLASS-250-343	c 35	N74-11284 *	#	US-PATENT-CLASS-250-43.5FC	c 14	N72-11365 *	#
US-PATENT-CLASS-250-225	c 14	N71-24864 *	#	US-PATENT-CLASS-250-343	c 25	N74-26947 *	#	US-PATENT-CLASS-250-43.5R	c 14	N71-27090 *	#
US-PATENT-CLASS-250-225	c 14	N72-27409 *	#	US-PATENT-CLASS-250-343	c 45	N75-27585 *	#	US-PATENT-CLASS-250-43.5R	c 14	N72-21408 *	#
US-PATENT-CLASS-250-225	c 32	N86-20647 *	#	US-PATENT-CLASS-250-343	c 74	N76-20958 *	#	US-PATENT-CLASS-250-43.5R	c 06	N72-25146 *	#
US-PATENT-CLASS-250-226	c 14	N72-25409 *	#	US-PATENT-CLASS-250-343	c 25	N76-22323 *	#	US-PATENT-CLASS-250-43.5R	c 06	N72-31141 *	#
US-PATENT-CLASS-250-226	c 43	N79-17288 *	#	US-PATENT-CLASS-250-343	c 35	N77-14411 *	#	US-PATENT-CLASS-250-43.5	c 27	N71-16348 *	#
US-PATENT-CLASS-250-226	c 74	N82-30071 *	#	US-PATENT-CLASS-250-343	c 35	N78-13400 *	#	US-PATENT-CLASS-250-43.5	c 15	N71-24896 *	#
US-PATENT-CLASS-250-227	c 14	N71-22991 *	#	US-PATENT-CLASS-250-343	c 25	N81-14015 *	#	US-PATENT-CLASS-250-43.5	c 14	N71-25901 *	#
US-PATENT-CLASS-250-227	c 14	N71-23240 *	#	US-PATENT-CLASS-250-343	c 35	N84-34705 *	#	US-PATENT-CLASS-250-432R	c 25	N76-22323 *	#
US-PATENT-CLASS-250-227	c 60	N77-14751 *	#	US-PATENT-CLASS-250-343	c 36	N85-21631 *	#	US-PATENT-CLASS-250-432	c 45	N75-27585 *	#
US-PATENT-CLASS-250-227	c 74	N78-33913 *	#	US-PATENT-CLASS-250-344	c 25	N76-22323 *	#	US-PATENT-CLASS-250-444	c 52	N77-14737 *	#
US-PATENT-CLASS-250-227	c 74	N83-19597 *	#	US-PATENT-CLASS-250-344	c 74	N78-17867 *	#	US-PATENT-CLASS-250-457	c 35	N80-28686 *	#
US-PATENT-CLASS-250-227	c 74	N84-11921 *	#	US-PATENT-CLASS-250-345	c 45	N75-27585 *	#	US-PATENT-CLASS-250-460	c 37	N75-26372 *	#
US-PATENT-CLASS-250-229	c 08	N73-30135 *	#	US-PATENT-CLASS-250-347	c 35	N77-10493 *	#	US-PATENT-CLASS-250-474.1	c 35	N83-21311 *	#
US-PATENT-CLASS-250-231R	c 74	N82-30071 *	#	US-PATENT-CLASS-250-347	c 47	N77-10753 *	#	US-PATENT-CLASS-250-475	c 35	N79-10389 *	#
US-PATENT-CLASS-250-231SE	c 74	N74-21304 *	#	US-PATENT-CLASS-250-347	c 74	N80-33210 *	#	US-PATENT-CLASS-250-483.1	c 35	N84-33765 *	#
US-PATENT-CLASS-250-231SE	c 44	N80-18552 *	#	US-PATENT-CLASS-250-350	c 25	N81-25159 *	#	US-PATENT-CLASS-250-483	c 74	N79-20857 *	#
US-PATENT-CLASS-250-231	c 14	N73-20475 *	#	US-PATENT-CLASS-250-350	c 74	N83-19597 *	#	US-PATENT-CLASS-250-483	c 74	N81-24900 *	#
US-PATENT-CLASS-250-232	c 23	N71-21821 *	#	US-PATENT-CLASS-250-351	c 35	N75-30502 *	#	US-PATENT-CLASS-250-489	c 35	N76-15433 *	#
US-PATENT-CLASS-250-233	c 23	N71-16100 *	#	US-PATENT-CLASS-250-351	c 35	N78-13400 *	#	US-PATENT-CLASS-250-49.5B	c 24	N72-11595 *	#
US-PATENT-CLASS-250-234	c 03	N73-20040 *	#	US-PATENT-CLASS-250-351	c 74	N83-19597 *	#	US-PATENT-CLASS-250-49.5TE	c 14	N72-11595 *	#
US-PATENT-CLASS-250-235	c 14	N72-11364 *	#	US-PATENT-CLASS-250-351	c 35	N84-34705 *	#	US-PATENT-CLASS-250-49.5	c 24	N69-39982 *	#
US-PATENT-CLASS-250-235	c 43	N82-13465 *	#	US-PATENT-CLASS-250-352	c 31	N79-17029 *	#	US-PATENT-CLASS-250-49.5	c 14	N71-28863 *	#
US-PATENT-CLASS-250-235	c 74	N82-24072 *	#	US-PATENT-CLASS-250-352	c 34	N79-20336 *	#	US-PATENT-CLASS-250-49.5	c 14	N72-17328 *	#
US-PATENT-CLASS-250-236	c 21	N73-30640 *	#	US-PATENT-CLASS-250-352	c 35	N80-26635 *	#	US-PATENT-CLASS-250-491	c 35	N80-28686 *	#
US-PATENT-CLASS-250-236	c 43	N82-13465 *	#	US-PATENT-CLASS-250-352	c 74	N80-33210 *	#	US-PATENT-CLASS-250-492A	c 33	N80-14332 *	#
US-PATENT-CLASS-250-237G	c 74	N79-20856 *	#	US-PATENT-CLASS-250-353	c 35	N76-29551 *	#	US-PATENT-CLASS-250-492B	c 25	N78-27226 *	#
US-PATENT-CLASS-250-237R	c 08	N73-30135 *	#	US-PATENT-CLASS-250-353	c 35	N80-26635 *	#	US-PATENT-CLASS-250-492R	c 25	N76-29379 *	#
US-PATENT-CLASS-250-237R	c 19	N74-15089 *	#	US-PATENT-CLASS-250-353	c 74	N80-33210 *	#	US-PATENT-CLASS-250-492R	c 28	N78-24365 *	#
US-PATENT-CLASS-250-237	c 14	N69-24331 *	#	US-PATENT-CLASS-250-356.1	c 47	N84-28292 *	#	US-PATENT-CLASS-250-492	c 35	N74-15091 *	#
US-PATENT-CLASS-250-238	c 33	N75-31332 *	#	US-PATENT-CLASS-250-359	c 37	N75-26372 *	#	US-PATENT-CLASS-250-492	c 37	N75-26372 *	#
US-PATENT-CLASS-250-238	c 32	N77-28346 *	#	US-PATENT-CLASS-250-360	c 35	N74-15091 *	#	US-PATENT-CLASS-250-493	c 73	N75-30876 *	#
US-PATENT-CLASS-250-239	c 08	N73-30135 *	#	US-PATENT-CLASS-250-361	c 35	N74-15091 *	#	US-PATENT-CLASS-250-495	c 74	N75-12732 *	#
US-PATENT-CLASS-250-239	c 74	N78-33913 *	#	US-PATENT-CLASS-250-363R	c 52	N77-14737 *	#	US-PATENT-CLASS-250-496	c 73	N75-30876 *	#
US-PATENT-CLASS-250-251	c 35	N76-15431 *	#	US-PATENT-CLASS-250-363R	c 74	N79-20857 *	#	US-PATENT-CLASS-250-498	c 52	N77-14737 *	#
US-PATENT-CLASS-250-251	c 35	N84-33767 *	#	US-PATENT-CLASS-250-363R	c 74	N84-11920 *	#	US-PATENT-CLASS-250-499	c 73	N74-26767 *	#
US-PATENT-CLASS-250-252.1	c 35	N84-33767 *	#	US-PATENT-CLASS-250-363S	c 74	N84-11920 *	#	US-PATENT-CLASS-250-499	c 72	N76-15860 *	#
US-PATENT-CLASS-250-253	c 43	N79-31706 *	#	US-PATENT-CLASS-250-363S	c 35	N85-30281 *	#	US-PATENT-CLASS-250-499	c 37	N78-13436 *	#
US-PATENT-CLASS-250-272	c 74	N78-15880 *	#	US-PATENT-CLASS-250-367	c 35	N84-33765 *	#	US-PATENT-CLASS-250-500	c 72	N76-15860 *	#
US-PATENT-CLASS-250-272	c 43	N79-31706 *	#	US-PATENT-CLASS-250-368	c 74	N81-24900 *	#	US-PATENT-CLASS-250-505	c 74	N74-27866 *	#
US-PATENT-CLASS-250-277CH	c 76	N78-24950 *	#	US-PATENT-CLASS-250-368	c 74	N84-11920 *	#	US-PATENT-CLASS-250-505	c 35	N75-19616 *	#
US-PATENT-CLASS-250-277CH	c 74	N80-21140 *	#	US-PATENT-CLASS-250-369	c 35	N74-15091 *	#	US-PATENT-CLASS-250-508	c 35	N75-19616 *	#
US-PATENT-CLASS-250-280	c 76	N78-24950 *	#	US-PATENT-CLASS-250-369	c 35	N82-32659 *	#	US-PATENT-CLASS-250-51.5	c 23	N73-13662 *	#
US-PATENT-CLASS-250-280	c 74	N80-21140 *	#	US-PATENT-CLASS-250-369	c 35	N85-30281 *	#	US-PATENT-CLASS-250-51.5	c 14	N73-28491 *	#
US-PATENT-CLASS-250-281	c 35	N74-34857 *	#	US-PATENT-CLASS-250-370	c 35	N74-18088 *	#	US-PATENT-CLASS-250-510	c 35	N75-19616 *	#
US-PATENT-CLASS-250-281	c 35	N76-16393 *	#	US-PATENT-CLASS-250-370	c 33	N75-31332 *	#	US-PATENT-CLASS-250-511	c 74	N74-27866 *	#
US-PATENT-CLASS-250-281	c 36	N77-26477 *	#	US-PATENT-CLASS-250-370	c 35	N82-31659 *	#	US-PATENT-CLASS-250-513	c 35	N80-28686 *	#
US-PATENT-CLASS-250-281	c 72	N80-14877 *	#	US-PATENT-CLASS-250-370	c 44	N82-32841 *	#	US-PATENT-CLASS-250-518	c 14	N73-30392 *	#
US-PATENT-CLASS-250-282	c 36	N77-26477 *	#	US-PATENT-CLASS-250-371	c 35	N74-18088 *	#	US-PATENT-CLASS-250-51	c 24	N72-11595 *	#
US-PATENT-CLASS-250-282	c 72	N80-14877 *	#	US-PATENT-CLASS-250-372	c 19	N74-29410 *	#	US-PATENT-CLASS-250-527	c 37	N76-18458 *	#
US-PATENT-CLASS-250-282	c 35	N83-27184 *	#	US-PATENT-CLASS-250-372	c 24	N76-24363 *	#	US-PATENT-CLASS-250-527	c 25	N77-32255 *	#
US-PATENT-CLASS-250-283	c 36	N77-26477 *	#	US-PATENT-CLASS-250-372	c 33	N76-27473 *	#	US-PATENT-CLASS-250-527	c 44	N77-32580 *	#
US-PATENT-CLASS-250-287	c 35	N76-15431 *	#	US-PATENT-CLASS-250-372	c 35	N83-21311 *	#	US-PATENT-CLASS-250-527	c 44	N79-11470 *	#
US-PATENT-CLASS-250-287	c 35	N76-16393 *	#	US-PATENT-CLASS-250-372	c 35	N84-33767 *	#	US-PATENT-CLASS-250-527	c 44	N82-16475 *	#
US-PATENT-CLASS-250-288	c 35	N76-16393 *	#	US-PATENT-CLASS-250-373	c 25	N74-26947 *	#	US-PATENT-CLASS-250-528	c 25	N78-25148 *	#
US-PATENT-CLASS-250-288	c 35	N77-32456 *	#	US-PATENT-CLASS-250-373	c 35	N75-30502 *	#	US-PATENT-CLASS-250-52	c 15	N71-15606 *	#
US-PATENT-CLASS-250-288	c 35	N83-27184 *	#	US-PATENT-CLASS-250-373	c 45	N76-17656 *	#	US-PATENT-CLASS-250-52	c 11	N71-23042 *	#
US-PATENT-CLASS-250-289	c 35	N77-14406 *	#	US-PATENT-CLASS-250-374	c 35	N74-26949 *	#	US-PATENT-CLASS-250-52	c 24	N72-11595 *	#
US-PATENT-CLASS-250-290	c 35	N77-10492 *	#	US-PATENT-CLASS-250-374	c 35	N85-34374 *	#	US-PATENT-CLASS-250-52	c 23	N73-13662 *	#
US-PATENT-CLASS-250-291	c 35	N77-10492 *	#	US-PATENT-CLASS-250-379	c 35	N85-34374 *	#	US-PATENT-CLASS-250-531	c 25	N78-25148 *	#
US-PATENT-CLASS-250-295	c 35	N74-34857 *	#	US-PATENT-CLASS-250-385	c 35	N74-26949 *	#	US-PATENT-CLASS-250-531	c 33	N79-15245 *	#
US-PATENT-CLASS-250-296	c 35	N84-28016 *	#	US-PATENT-CLASS-250-385	c 35	N75-27331 *	#	US-PATENT-CLASS-250-540	c 33	N79-15245 *	#
US-PATENT-CLASS-250-298	c 35	N77-14406 *	#	US-PATENT-CLASS-250-385	c 35	N76-15433 *	#	US-PATENT-CLASS-250-541	c 33	N79-15245 *	#
US-PATENT-CLASS-250-304	c 25	N74-26947 *	#	US-PATENT-CLASS-250-385	c 35	N76-16393 *	#	US-PATENT-CLASS-250-551	c 74	N79-34011 *	#
US-PATENT-CLASS-250-305	c 72	N84-28575 *	#	US-PATENT-CLASS-250-385	c 35	N82-24471 *	#	US-PATENT-CLASS-250-563	c 38	N78-17396 *	#
US-PATENT-CLASS-250-307	c 25	N80-20334 *	#	US-PATENT-CLASS-250-385	c 35	N84-33765 *	#	US-PATENT-CLASS-250-566	c 74	N75-25706 *	#
US-PATENT-CLASS-250-308	c 25	N80-20334 *	#	US-PATENT-CLASS-250-386	c 35	N82-24471 *	#	US-PATENT-CLASS-250-571	c 36	N78-14380 *	#
US-PATENT-CLASS-250-310	c 35	N78-10429 *	#	US-PATENT-CLASS-250-386	c 33	N83-24763 *	#	US-PATENT-CLASS-250-572	c 38	N78-17395 *	#
US-PATENT-CLASS-250-310	c 33	N80-14332 *	#	US-PATENT-CLASS-250-389	c 35	N82-24471 *	#	US-PATENT-CLASS-250-572	c 38	N78-17396 *	#
US-PATENT-CLASS-250-311	c 33	N83-18996 *	#	US-PATENT-CLASS-250-394	c 14	N73-30392 *	#	US-PATENT-CLASS-250-573	c 74	N76-20958 *	#
US-PATENT-CLASS-250-320	c 74	N78-15880 *	#	US-PATENT-CLASS-250-394	c 19	N74-29410 *	#	US-PATENT-CLASS-250-573	c 34	N83-31993 *	#
US-PATENT-CLASS-250-322	c 35	N78-15461 *	#	US-PATENT-CLASS-250-396	c 35	N77-14408 *	#	US-PATENT-CLASS-250-574	c 45	N76-21742 *	#
US-PATENT-CLASS-250-330	c 44	N82-32841 *	#	US-PATENT-CLASS-250-398	c 35	N78-10429 *	#	US-PATENT-CLASS-250-574	c 36	N77-25501 *	#
US-PATENT-CLASS-250-332	c 35	N75-19613 *	#	US-PATENT-CLASS-250-400	c 25	N76-29379 *	#	US-PATENT-CLASS-250-576	c 35	N74-27860 *	#
US-PATENT-CLASS-250-332	c 31	N78-25256 *	#	US-PATENT-CLASS-250-400	c 25	N78-27226 *	#	US-PATENT-CLASS-250-578	c 36	N75-19652 *	#
US-PATENT-CLASS-250-332	c 35	N82-31659 *	#	US-PATENT-CLASS-250-41.9D	c 14	N72-29464 *	#	US-PATENT-CLASS-250-65F	c 15	N72-25452 *	#
US-PATENT-CLASS-250-332	c 74	N83-19597 *	#	US-PATENT-CLASS-250-41.9G	c 14	N73-12444 *	#	US-PATENT-CLASS-250-65R	c 14	N73-30389 *	#
US-PATENT-CLASS-250-332	c 74	N84-28590 *	#	US-PATENT-CLASS-250-41.9S	c 14	N73-12444 *	#	US-PATENT-CLASS-250-71.5R	c 14	N72-29464 *	#
US-PATENT-CLASS-250-335	c 34	N76-18374 *	#	US-PATENT-CLASS-250-41.95	c 14	N71-28992 *	#	US-PATENT-CLASS-250-71.5	c 14	N72-17328 *	#
US-PATENT-CLASS-250-336	c 14	N73-28488 *	#	US-PATENT-CLASS-250-41.9	c 06	N71-13461 *	#	US-PATENT-CLASS-250-71R	c 06	N76-16106 *	#
US-PATENT-CLASS-250-336	c 35	N76-15433 *	#	US-PATENT-CLASS-250-41.9	c 24	N71-16095 *	#	US-PATENT-CLASS-250-71	c 14	N70-41676 *	#
US-PATENT-CLASS-250-336	c 33	N76-27473 *	#	US-PATENT-CLASS-250-41.9	c 14	N71-23041 *	#				

US-PATENT-CLASS-250-83.3UV	c 06	N73-16106 *	#	US-PATENT-CLASS-252-549	c 23	N75-14834 *	#	US-PATENT-CLASS-260-29.6RB	c 25	N81-19242 *	#
US-PATENT-CLASS-250-83.3	c 21	N70-33181 *	#	US-PATENT-CLASS-252-58	c 18	N70-39897 *	#	US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *	#
US-PATENT-CLASS-250-83.3	c 21	N70-34297 *	#	US-PATENT-CLASS-252-5	c 25	N83-33917 *	#	US-PATENT-CLASS-260-29.6	c 26	N75-27125 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-15599 *	#	US-PATENT-CLASS-252-5	c 25	N83-36118 *	#	US-PATENT-CLASS-260-2	c 06	N71-11243 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-18699 *	#	US-PATENT-CLASS-252-62.3E	c 44	N80-24741 *	#	US-PATENT-CLASS-260-2	c 06	N71-20717 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-21088 *	#	US-PATENT-CLASS-252-62.3E	c 44	N81-19558 *	#	US-PATENT-CLASS-260-2	c 06	N71-20905 *	#
US-PATENT-CLASS-250-83.3	c 09	N71-22985 *	#	US-PATENT-CLASS-252-62.3GA	c 25	N75-26043 *	#	US-PATENT-CLASS-260-2	c 06	N71-27363 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-25901 *	#	US-PATENT-CLASS-252-62.3	c 26	N71-23292 *	#	US-PATENT-CLASS-260-2	c 06	N73-30102 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-26475 *	#	US-PATENT-CLASS-252-62.3	c 76	N76-25049 *	#	US-PATENT-CLASS-260-2	c 27	N79-21190 *	#
US-PATENT-CLASS-250-83.3	c 14	N71-27323 *	#	US-PATENT-CLASS-252-62	c 27	N74-27037 *	#	US-PATENT-CLASS-260-30.2	c 06	N73-27980 *	#
US-PATENT-CLASS-250-83.3	c 14	N72-17328 *	#	US-PATENT-CLASS-252-70	c 23	N75-14834 *	#	US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *	#
US-PATENT-CLASS-250-83.3	c 35	N75-27329 *	#	US-PATENT-CLASS-252-8.1	c 18	N73-26572 *	#	US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *	#
US-PATENT-CLASS-250-83.6R	c 14	N71-27090 *	#	US-PATENT-CLASS-252-8.1	c 27	N74-27037 *	#	US-PATENT-CLASS-260-307G	c 27	N79-22300 *	#
US-PATENT-CLASS-250-83.6R	c 14	N72-20381 *	#	US-PATENT-CLASS-252-8.1	c 24	N78-14096 *	#	US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *	#
US-PATENT-CLASS-250-83.6R	c 25	N72-33696 *	#	US-PATENT-CLASS-253-317	c 44	N77-22606 *	#	US-PATENT-CLASS-260-32.6N	c 27	N78-17205 *	#
US-PATENT-CLASS-250-83.6R	c 74	N81-19898 *	#	US-PATENT-CLASS-253-39.15	c 15	N70-33226 *	#	US-PATENT-CLASS-260-32.6N	c 06	N73-27980 *	#
US-PATENT-CLASS-250-83.6	c 10	N70-41991 *	#	US-PATENT-CLASS-253-39.15	c 15	N70-33264 *	#	US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *	#
US-PATENT-CLASS-250-83CD	c 91	N74-13130 *	#	US-PATENT-CLASS-253-39.15	c 28	N70-33372 *	#	US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *	#
US-PATENT-CLASS-250-83R	c 14	N73-12445 *	#	US-PATENT-CLASS-253-39.1	c 33	N71-29152 *	#	US-PATENT-CLASS-260-326N	c 27	N81-17260 *	#
US-PATENT-CLASS-250-83R	c 14	N73-20477 *	#	US-PATENT-CLASS-253-66	c 15	N70-36412 *	#	US-PATENT-CLASS-260-326S	c 27	N81-17260 *	#
US-PATENT-CLASS-250-83	c 14	N69-27484 *	#	US-PATENT-CLASS-253-66	c 28	N70-39895 *	#	US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *	#
US-PATENT-CLASS-250-83	c 14	N69-39937 *	#	US-PATENT-CLASS-253-77	c 28	N71-28928 *	#	US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *	#
US-PATENT-CLASS-250-83	c 09	N71-18830 *	#	US-PATENT-CLASS-253-77	c 28	N71-29154 *	#	US-PATENT-CLASS-260-33.4R	c 27	N81-19296 *	#
US-PATENT-CLASS-250-83	c 05	N71-19440 *	#	US-PATENT-CLASS-253	c 25	N79-28253 *	#	US-PATENT-CLASS-260-33.6EP	c 24	N78-27180 *	#
US-PATENT-CLASS-250-83	c 14	N71-20430 *	#	US-PATENT-CLASS-254-124	c 20	N76-22296 *	#	US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *	#
US-PATENT-CLASS-250-83	c 14	N71-23401 *	#	US-PATENT-CLASS-254-131	c 60	N82-24839 *	#	US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *	#
US-PATENT-CLASS-250-83	c 09	N71-27232 *	#	US-PATENT-CLASS-254-150	c 15	N71-24599 *	#	US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *	#
US-PATENT-CLASS-250-84	c 14	N71-24809 *	#	US-PATENT-CLASS-254-156	c 15	N73-25512 *	#	US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	#
US-PATENT-CLASS-251-118	c 15	N71-18580 *	#	US-PATENT-CLASS-254-158	c 54	N77-21844 *	#	US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	#
US-PATENT-CLASS-251-11	c 15	N70-35407 *	#	US-PATENT-CLASS-254-173	c 15	N71-24599 *	#	US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	#
US-PATENT-CLASS-251-120	c 37	N74-21065 *	#	US-PATENT-CLASS-254-186	c 15	N71-24599 *	#	US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	#
US-PATENT-CLASS-251-121	c 15	N71-18580 *	#	US-PATENT-CLASS-254-190	c 15	N72-25453 *	#	US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	#
US-PATENT-CLASS-251-122	c 15	N73-13462 *	#	US-PATENT-CLASS-254-29A	c 15	N73-30457 *	#	US-PATENT-CLASS-260-346.3	c 23	N73-30256 *	#
US-PATENT-CLASS-251-122	c 37	N74-21065 *	#	US-PATENT-CLASS-254-93R	c 35	N74-13129 *	#	US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	#
US-PATENT-CLASS-251-127	c 12	N71-18615 *	#	US-PATENT-CLASS-254-93R	c 20	N76-22296 *	#	US-PATENT-CLASS-260-346.3	c 27	N80-32515 *	#
US-PATENT-CLASS-251-127	c 44	N84-14583 *	#	US-PATENT-CLASS-256-13.1	c 37	N79-10420 *	#	US-PATENT-CLASS-260-348SC	c 06	N72-25148 *	#
US-PATENT-CLASS-251-129	c 15	N72-20442 *	#	US-PATENT-CLASS-256-1	c 37	N79-10420 *	#	US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	#
US-PATENT-CLASS-251-138	c 37	N80-23654 *	#	US-PATENT-CLASS-256-308.2	c 27	N86-20561 *	#	US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	#
US-PATENT-CLASS-251-148	c 15	N71-23024 *	#	US-PATENT-CLASS-259-DIG.18	c 35	N74-15093 *	#	US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	#
US-PATENT-CLASS-251-149.6	c 37	N76-14463 *	#	US-PATENT-CLASS-259-4AC	c 37	N76-19436 *	#	US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	#
US-PATENT-CLASS-251-149.9	c 37	N79-11402 *	#	US-PATENT-CLASS-259-4	c 15	N73-19458 *	#	US-PATENT-CLASS-260-37N	c 27	N79-28307 *	#
US-PATENT-CLASS-251-172	c 15	N71-21234 *	#	US-PATENT-CLASS-259-60	c 35	N74-15093 *	#	US-PATENT-CLASS-260-37	c 18	N71-25881 *	#
US-PATENT-CLASS-251-172	c 37	N79-33469 *	#	US-PATENT-CLASS-259-71	c 15	N71-21177 *	#	US-PATENT-CLASS-260-37	c 27	N81-24258 *	#
US-PATENT-CLASS-251-173	c 15	N70-33376 *	#	US-PATENT-CLASS-259-72	c 37	N74-18123 *	#	US-PATENT-CLASS-260-386	c 25	N82-24312 *	#
US-PATENT-CLASS-251-210	c 37	N74-21065 *	#	US-PATENT-CLASS-259-98	c 35	N74-15126 *	#	US-PATENT-CLASS-260-389	c 25	N82-24312 *	#
US-PATENT-CLASS-251-216	c 37	N81-17433 *	#	US-PATENT-CLASS-259/4R	c 34	N77-24423 *	#	US-PATENT-CLASS-260-396N	c 27	N74-27037 *	#
US-PATENT-CLASS-251-265	c 37	N85-20338 *	#	US-PATENT-CLASS-260.46.5E	c 27	N74-21156 *	#	US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	#
US-PATENT-CLASS-251-267	c 37	N85-20338 *	#	US-PATENT-CLASS-260-DIG.15	c 27	N78-14164 *	#	US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	#
US-PATENT-CLASS-251-284	c 37	N85-20338 *	#	US-PATENT-CLASS-260-DIG.24	c 27	N74-27037 *	#	US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	#
US-PATENT-CLASS-251-297	c 37	N85-20338 *	#	US-PATENT-CLASS-260-DIG.24	c 27	N76-24405 *	#	US-PATENT-CLASS-260-429	c 06	N71-28808 *	#
US-PATENT-CLASS-251-31	c 15	N71-19485 *	#	US-PATENT-CLASS-260-DIG.29	c 27	N80-24438 *	#	US-PATENT-CLASS-260-42	c 27	N79-28307 *	#
US-PATENT-CLASS-251-325	c 37	N85-29284 *	#	US-PATENT-CLASS-260-17.2	c 24	N80-26388 *	#	US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	#
US-PATENT-CLASS-251-331	c 15	N72-31483 *	#	US-PATENT-CLASS-260-17.2	c 24	N81-13999 *	#	US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	#
US-PATENT-CLASS-251-333	c 15	N70-34859 *	#	US-PATENT-CLASS-260-17.4UC	c 23	N81-29160 *	#	US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	#
US-PATENT-CLASS-251-333	c 12	N71-18615 *	#	US-PATENT-CLASS-260-17A	c 27	N81-14076 *	#	US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	#
US-PATENT-CLASS-251-333	c 15	N72-20442 *	#	US-PATENT-CLASS-260-18S	c 06	N72-25151 *	#	US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	#
US-PATENT-CLASS-251-333	c 37	N75-25185 *	#	US-PATENT-CLASS-260-2.1E	c 18	N72-22567 *	#	US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	#
US-PATENT-CLASS-251-339	c 37	N81-17433 *	#	US-PATENT-CLASS-260-2.1E	c 27	N81-14076 *	#	US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	#
US-PATENT-CLASS-251-342	c 12	N71-18615 *	#	US-PATENT-CLASS-260-2.1E	c 25	N81-19244 *	#	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	#
US-PATENT-CLASS-251-349	c 37	N85-29284 *	#	US-PATENT-CLASS-260-2.1	c 25	N81-17187 *	#	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	#
US-PATENT-CLASS-251-353	c 37	N85-29284 *	#	US-PATENT-CLASS-260-2.2R	c 25	N81-17187 *	#	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	#
US-PATENT-CLASS-251-358	c 15	N71-17648 *	#	US-PATENT-CLASS-260-2.2R	c 25	N81-19244 *	#	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	#
US-PATENT-CLASS-251-360	c 15	N72-25451 *	#	US-PATENT-CLASS-260-2.5AK	c 27	N76-15310 *	#	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	#
US-PATENT-CLASS-251-61.1	c 12	N71-18615 *	#	US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	#	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	#
US-PATENT-CLASS-251-61	c 15	N71-10778 *	#	US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	#	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	#
US-PATENT-CLASS-251-7	c 37	N79-28550 *	#	US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	#	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	#
US-PATENT-CLASS-251-86	c 15	N72-31483 *	#	US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	#	US-PATENT-CLASS-260-46.5	c 06	N71-11240 *	#
US-PATENT-CLASS-251-86	c 37	N80-23654 *	#	US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	#	US-PATENT-CLASS-260-465.5R	c 27	N81-24258 *	#
US-PATENT-CLASS-252-12.2	c 24	N79-17916 *	#	US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	#	US-PATENT-CLASS-260-465.5R	c 27	N84-22744 *	#
US-PATENT-CLASS-252-12	c 15	N71-23810 *	#	US-PATENT-CLASS-260-2.5BE	c 24	N78-24290 *	#	US-PATENT-CLASS-260-465.6	c 27	N84-22744 *	#
US-PATENT-CLASS-252-12	c 24	N76-22309 *	#	US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	#	US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	#
US-PATENT-CLASS-252-182.1	c 33	N84-14422 *	#	US-PATENT-CLASS-260-2.5EP	c 24	N78-24290 *	#	US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	#
US-PATENT-CLASS-252-26	c 15	N71-21403 *	#	US-PATENT-CLASS-260-2.5FP	c 06	N72-25147 *	#	US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	#
US-PATENT-CLASS-252-26	c 15	N71-24046 *	#	US-PATENT-CLASS-260-2.5FP	c 27	N74-27037 *	#	US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	#
US-PATENT-CLASS-252-2	c 25	N83-36118 *	#	US-PATENT-CLASS-260-2.5FP	c 24	N78-24290 *	#	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	#
US-PATENT-CLASS-252-300	c 14	N72-22443 *	#	US-PATENT-CLASS-260-2.5F	c 18	N73-13562 *	#	US-PATENT-CLASS-260-47	c 06	N71-28620 *	#
US-PATENT-CLASS-252-300	c 24	N76-24363 *	#	US-PATENT-CLASS-260-2.5L	c 27	N74-12814 *	#	US-PATENT-CLASS-260-47	c 06	N71-28807 *	#
US-PATENT-CLASS-252-301.1R	c 35	N79-10389 *	#	US-PATENT-CLASS-260-2.5N	c 24	N78-15180 *	#	US-PATENT-CLASS-260-485F	c 06	N73-30098 *	#
US-PATENT-CLASS-252-301.16	c 35	N79-10389 *	#	US-PATENT-CLASS-260-2.5N	c 27	N78-31232 *	#	US-PATENT-CLASS-260-49	c 27	N78-32261 *	#
US-PATENT-CLASS-252-301.2	c 18	N71-27170 *	#	US-PATENT-CLASS-260-2.5R	c 27	N74-27037 *	#	US-PATENT-CLASS-260-520	c 23	N75-30256 *	#
US-PATENT-CLASS-252-301.4	c 06	N73-30097 *	#	US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	#	US-PATENT-CLASS-260-535H	c 06	N72-27144 *	#
US-PATENT-CLASS-252-305	c 06	N73-30097 *	#	US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	#	US-PATENT-CLASS-260-53	c 27	N79-28307 *	#
US-PATENT-CLASS-252-359A	c 37	N77-13418 *	#	US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	#	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	#
US-PATENT-CLASS-252-361	c 71	N83-35781 *	#	US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	#	US-PATENT-CLASS-260-544F	c 06	N72-20121 *	#
US-PATENT-CLASS-252-364	c 28	N81-15119 *	#	US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	#	US-PATENT-CLASS-260-551P	c 27	N78-32256 *	#
US-PATENT-CLASS-252-373	c 44	N76-29704 *	#	US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	#	US-PATENT-CLASS-260-567.6M	c 06	N76-32315 *	#
US-PATENT-CLASS-252-373	c 44	N77-10636 *	#	US-PATENT-CLASS-260-2P	c 27	N78-32256 *	#	US-PATENT-CLASS-260-571	c 23	N73-32029 *	#
US-PATENT-CLASS-252-408	c 14	N73-14428 *	#								

US-PATENT-CLASS-260-65	c 23	N82-29358 *	#	US-PATENT-CLASS-264-161	c 37	N76-31524 *	#	US-PATENT-CLASS-269-153	c 44	N79-19447 *	#
US-PATENT-CLASS-260-67	c 27	N78-17214 *	#	US-PATENT-CLASS-264-175	c 15	N79-26100 *	#	US-PATENT-CLASS-269-156	c 37	N80-14398 *	#
US-PATENT-CLASS-260-67	c 27	N79-21191 *	#	US-PATENT-CLASS-264-184	c 27	N78-32262 *	#	US-PATENT-CLASS-269-21	c 37	N76-25154 *	#
US-PATENT-CLASS-260-72.5	c 06	N71-11236 *	#	US-PATENT-CLASS-264-1	c 44	N79-24432 *	#	US-PATENT-CLASS-269-21	c 37	N78-17383 *	#
US-PATENT-CLASS-260-72.5	c 06	N71-11239 *	#	US-PATENT-CLASS-264-211	c 27	N78-32262 *	#	US-PATENT-CLASS-269-21	c 37	N78-27423 *	#
US-PATENT-CLASS-260-72.5	c 06	N71-24740 *	#	US-PATENT-CLASS-264-212	c 27	N80-32516 *	#	US-PATENT-CLASS-269-21	c 37	N80-18951 *	#
US-PATENT-CLASS-260-75NH	c 27	N78-17213 *	#	US-PATENT-CLASS-264-216	c 25	N82-21268 *	#	US-PATENT-CLASS-269-21	c 37	N81-33482 *	#
US-PATENT-CLASS-260-75NK	c 27	N78-17213 *	#	US-PATENT-CLASS-264-217	c 25	N75-12087 *	#	US-PATENT-CLASS-269-224	c 37	N84-28083 *	#
US-PATENT-CLASS-260-75NT	c 27	N78-17213 *	#	US-PATENT-CLASS-264-219	c 37	N76-31524 *	#	US-PATENT-CLASS-269-242	c 18	N83-29303 *	#
US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *	#	US-PATENT-CLASS-264-220	c 27	N82-28440 *	#	US-PATENT-CLASS-269-242	c 37	N84-28083 *	#
US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *	#	US-PATENT-CLASS-264-221	c 15	N72-16329 *	#	US-PATENT-CLASS-269-244	c 18	N83-29303 *	#
US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *	#	US-PATENT-CLASS-264-225	c 15	N72-16329 *	#	US-PATENT-CLASS-269-244	c 37	N84-28083 *	#
US-PATENT-CLASS-260-77.5AP	c 06	N73-33076 *	#	US-PATENT-CLASS-264-227	c 15	N72-16329 *	#	US-PATENT-CLASS-269-252	c 37	N84-28083 *	#
US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *	#	US-PATENT-CLASS-264-229	c 24	N81-29163 *	#	US-PATENT-CLASS-269-266	c 37	N78-27423 *	#
US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *	#	US-PATENT-CLASS-264-22	c 15	N72-20446 *	#	US-PATENT-CLASS-269-285	c 37	N84-28083 *	#
US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *	#	US-PATENT-CLASS-264-22	c 14	N72-22439 *	#	US-PATENT-CLASS-269-287	c 37	N80-23655 *	#
US-PATENT-CLASS-260-77.55P	c 27	N78-17213 *	#	US-PATENT-CLASS-264-22	c 25	N75-12087 *	#	US-PATENT-CLASS-269-3	c 37	N84-12491 *	#
US-PATENT-CLASS-260-77.5	c 06	N73-30099 *	#	US-PATENT-CLASS-264-22	c 27	N80-32516 *	#	US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	#
US-PATENT-CLASS-260-77.5	c 06	N73-30100 *	#	US-PATENT-CLASS-264-22	c 27	N82-28440 *	#	US-PATENT-CLASS-27-498	c 15	N73-28515 *	#
US-PATENT-CLASS-260-77.5	c 06	N73-30103 *	#	US-PATENT-CLASS-264-230	c 37	N82-24491 *	#	US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	#
US-PATENT-CLASS-260-78.41	c 27	N78-31232 *	#	US-PATENT-CLASS-264-231	c 24	N81-29163 *	#	US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	#
US-PATENT-CLASS-260-78TF	c 06	N73-27980 *	#	US-PATENT-CLASS-264-236	c 27	N78-32262 *	#	US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	#
US-PATENT-CLASS-260-78TF	c 27	N74-23125 *	#	US-PATENT-CLASS-264-236	c 15	N76-31524 *	#	US-PATENT-CLASS-272-1R	c 09	N75-15662 *	#
US-PATENT-CLASS-260-78TF	c 23	N75-30256 *	#	US-PATENT-CLASS-264-23	c 71	N78-10837 *	#	US-PATENT-CLASS-272-57A	c 09	N75-15662 *	#
US-PATENT-CLASS-260-78TF	c 23	N76-15268 *	#	US-PATENT-CLASS-264-23	c 31	N81-15154 *	#	US-PATENT-CLASS-272-70	c 05	N71-28619 *	#
US-PATENT-CLASS-260-78TF	c 27	N78-32261 *	#	US-PATENT-CLASS-264-24	c 31	N81-33319 *	#	US-PATENT-CLASS-272-73	c 14	N73-27377 *	#
US-PATENT-CLASS-260-78UA	c 06	N73-27980 *	#	US-PATENT-CLASS-264-24	c 31	N83-35176 *	#	US-PATENT-CLASS-272-73	c 05	N73-27941 *	#
US-PATENT-CLASS-260-78	c 06	N71-11235 *	#	US-PATENT-CLASS-264-257	c 37	N74-18126 *	#	US-PATENT-CLASS-272-73	c 37	N74-18127 *	#
US-PATENT-CLASS-260-78	c 06	N71-11238 *	#	US-PATENT-CLASS-264-258	c 24	N81-29163 *	#	US-PATENT-CLASS-272-79C	c 05	N73-32014 *	#
US-PATENT-CLASS-260-830S	c 15	N79-26100 *	#	US-PATENT-CLASS-264-258	c 27	N83-34041 *	#	US-PATENT-CLASS-272-80	c 37	N74-18127 *	#
US-PATENT-CLASS-260-85.5	c 06	N71-23500 *	#	US-PATENT-CLASS-264-258	c 27	N85-20124 *	#	US-PATENT-CLASS-273-1E	c 05	N73-13114 *	#
US-PATENT-CLASS-260-858	c 27	N81-14076 *	#	US-PATENT-CLASS-264-259	c 24	N81-29163 *	#	US-PATENT-CLASS-273-240	c 31	N83-34073 *	#
US-PATENT-CLASS-260-877	c 06	N72-22107 *	#	US-PATENT-CLASS-264-267	c 37	N76-24575 *	#	US-PATENT-CLASS-274-4R	c 09	N72-11224 *	#
US-PATENT-CLASS-260-879	c 27	N76-16228 *	#	US-PATENT-CLASS-264-27	c 26	N71-17818 *	#	US-PATENT-CLASS-277-105	c 37	N82-24490 *	#
US-PATENT-CLASS-260-886	c 27	N81-14076 *	#	US-PATENT-CLASS-264-28	c 15	N73-12489 *	#	US-PATENT-CLASS-277-116.6	c 37	N84-11497 *	#
US-PATENT-CLASS-260-8900	c 27	N81-14076 *	#	US-PATENT-CLASS-264-294	c 31	N74-13177 *	#	US-PATENT-CLASS-277-124	c 37	N84-11497 *	#
US-PATENT-CLASS-260-895	c 27	N81-14076 *	#	US-PATENT-CLASS-264-3R	c 28	N77-10213 *	#	US-PATENT-CLASS-277-134	c 37	N75-21631 *	#
US-PATENT-CLASS-260-898	c 27	N81-14076 *	#	US-PATENT-CLASS-264-3R	c 20	N77-17143 *	#	US-PATENT-CLASS-277-134	c 07	N78-25090 *	#
US-PATENT-CLASS-260-900	c 27	N76-16228 *	#	US-PATENT-CLASS-264-304	c 37	N76-31524 *	#	US-PATENT-CLASS-277-135	c 37	N85-29284 *	#
US-PATENT-CLASS-260-901	c 27	N81-14076 *	#	US-PATENT-CLASS-264-305	c 37	N76-31524 *	#	US-PATENT-CLASS-277-13	c 15	N71-26294 *	#
US-PATENT-CLASS-260-92.1	c 06	N72-25150 *	#	US-PATENT-CLASS-264-308	c 37	N76-31524 *	#	US-PATENT-CLASS-277-153	c 37	N80-28711 *	#
US-PATENT-CLASS-260-92.1	c 06	N72-25152 *	#	US-PATENT-CLASS-264-310	c 37	N76-31524 *	#	US-PATENT-CLASS-277-153	c 37	N81-26447 *	#
US-PATENT-CLASS-260-92.1	c 27	N76-16228 *	#	US-PATENT-CLASS-264-311	c 24	N81-29163 *	#	US-PATENT-CLASS-277-164	c 37	N84-11497 *	#
US-PATENT-CLASS-260-92.1	c 27	N76-24405 *	#	US-PATENT-CLASS-264-318	c 37	N76-31524 *	#	US-PATENT-CLASS-277-177	c 37	N84-11497 *	#
US-PATENT-CLASS-260-926	c 27	N80-10358 *	#	US-PATENT-CLASS-264-331.12	c 27	N85-20124 *	#	US-PATENT-CLASS-277-181	c 37	N81-15363 *	#
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US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *	#	US-PATENT-CLASS-264-331.46	c 27	N83-34041 *	#	US-PATENT-CLASS-277-190	c 37	N84-11497 *	#
US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *	#	US-PATENT-CLASS-264-331	c 27	N76-16230 *	#	US-PATENT-CLASS-277-192	c 37	N79-22474 *	#
US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *	#	US-PATENT-CLASS-264-332	c 37	N81-25371 *	#	US-PATENT-CLASS-277-193	c 37	N80-28711 *	#
US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *	#	US-PATENT-CLASS-264-334	c 37	N76-31524 *	#	US-PATENT-CLASS-277-193	c 37	N81-26447 *	#
US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *	#	US-PATENT-CLASS-264-33	c 44	N79-24432 *	#	US-PATENT-CLASS-277-1	c 37	N82-24490 *	#
US-PATENT-CLASS-260-94.8	c 27	N73-22710 *	#	US-PATENT-CLASS-264-342R	c 37	N82-24491 *	#	US-PATENT-CLASS-277-204	c 37	N82-24490 *	#
US-PATENT-CLASS-260-959	c 27	N78-32256 *	#	US-PATENT-CLASS-264-345	c 71	N78-10837 *	#	US-PATENT-CLASS-277-224	c 37	N80-28711 *	#
US-PATENT-CLASS-260-96D	c 28	N81-15119 *	#	US-PATENT-CLASS-264-34	c 44	N79-24432 *	#	US-PATENT-CLASS-277-229	c 37	N81-15363 *	#
US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *	#	US-PATENT-CLASS-264-35	c 44	N79-24432 *	#	US-PATENT-CLASS-277-25	c 15	N69-21362 *	#
US-PATENT-CLASS-261-118	c 31	N80-18231 *	#	US-PATENT-CLASS-264-36	c 15	N73-12489 *	#	US-PATENT-CLASS-277-25	c 15	N71-19570 *	#
US-PATENT-CLASS-261-123	c 34	N77-24423 *	#	US-PATENT-CLASS-264-36	c 32	N74-27612 *	#	US-PATENT-CLASS-277-25	c 15	N72-29488 *	#
US-PATENT-CLASS-261-145	c 28	N72-22772 *	#	US-PATENT-CLASS-264-3	c 28	N71-26779 *	#	US-PATENT-CLASS-277-25	c 37	N74-10474 *	#
US-PATENT-CLASS-261-28	c 07	N81-29129 *	#	US-PATENT-CLASS-264-40.4	c 35	N80-18357 *	#	US-PATENT-CLASS-277-25	c 07	N78-25090 *	#
US-PATENT-CLASS-261-79A	c 54	N81-24724 *	#	US-PATENT-CLASS-264-40	c 15	N73-12489 *	#	US-PATENT-CLASS-277-27	c 15	N72-29488 *	#
US-PATENT-CLASS-263-48	c 15	N69-27483 *	#	US-PATENT-CLASS-264-41	c 25	N81-19244 *	#	US-PATENT-CLASS-277-27	c 37	N74-10474 *	#
US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *	#	US-PATENT-CLASS-264-41	c 51	N84-28361 *	#	US-PATENT-CLASS-277-27	c 37	N74-15125 *	#
US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *	#	US-PATENT-CLASS-264-453	c 25	N82-21268 *	#	US-PATENT-CLASS-277-27	c 37	N75-21631 *	#
US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *	#	US-PATENT-CLASS-264-510	c 44	N79-24432 *	#	US-PATENT-CLASS-277-27	c 37	N82-12442 *	#
US-PATENT-CLASS-264-102	c 15	N71-10672 *	#	US-PATENT-CLASS-264-516	c 44	N79-24432 *	#	US-PATENT-CLASS-277-2	c 37	N82-24490 *	#
US-PATENT-CLASS-264-102	c 15	N73-12489 *	#	US-PATENT-CLASS-264-53	c 25	N82-21268 *	#	US-PATENT-CLASS-277-40	c 37	N75-21631 *	#
US-PATENT-CLASS-264-102	c 31	N74-14133 *	#	US-PATENT-CLASS-264-59	c 24	N84-16262 *	#	US-PATENT-CLASS-277-40	c 37	N82-12442 *	#
US-PATENT-CLASS-264-102	c 31	N74-18124 *	#	US-PATENT-CLASS-264-5	c 31	N81-33319 *	#	US-PATENT-CLASS-277-41	c 37	N76-22541 *	#
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US-PATENT-CLASS-264-104	c 05	N72-25120 *	#	US-PATENT-CLASS-264-5	c 31	N83-35176 *	#	US-PATENT-CLASS-277-53	c 37	N86-20788 *	#
US-PATENT-CLASS-264-104	c 27	N81-24257 *	#	US-PATENT-CLASS-264-60	c 27	N76-22376 *	#	US-PATENT-CLASS-277-59	c 37	N82-24490 *	#
US-PATENT-CLASS-264-104	c 23	N81-29160 *	#	US-PATENT-CLASS-264-60	c 27	N79-14213 *	#	US-PATENT-CLASS-277-62	c 37	N79-22475 *	#
US-PATENT-CLASS-264-104	c 25	N83-13188 *	#	US-PATENT-CLASS-264-60	c 24	N84-16262 *	#	US-PATENT-CLASS-277-72R	c 37	N82-24490 *	#
US-PATENT-CLASS-264-105	c 27	N81-24257 *	#	US-PATENT-CLASS-264-63	c 27	N76-22376 *	#	US-PATENT-CLASS-277-74	c 15	N72-29488 *	#
US-PATENT-CLASS-264-111	c 17	N71-29137 *	#	US-PATENT-CLASS-264-65	c 18	N73-14584 *	#	US-PATENT-CLASS-277-74	c 37	N76-22541 *	#
US-PATENT-CLASS-264-112	c 27	N85-20124 *	#	US-PATENT-CLASS-264-66	c 27	N76-22376 *	#	US-PATENT-CLASS-277-80	c 37	N85-29284 *	#
US-PATENT-CLASS-264-118	c 24	N80-26388 *	#	US-PATENT-CLASS-264-70	c 44	N79-24432 *	#	US-PATENT-CLASS-277-81R	c 37	N82-16408 *	#
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US-PATENT-CLASS-264-120	c 27	N85-20124 *	#	US-PATENT-CLASS-264-92	c 15	N71-17803 *	#	US-PATENT-CLASS-277-93R	c 37	N82-12442 *	#
US-PATENT-CLASS-264-124	c 24	N80-26388 *	#	US-PATENT-CLASS-264-92	c 15	N72-24522 *	#	US-PATENT-CLASS-277-96.1	c 37	N79-22475 *	#
US-PATENT-CLASS-264-129	c 37	N76-31524 *	#	US-PATENT-CLASS-264-9	c 31	N81-33319 *	#	US-PATENT-CLASS-277-96	c 37	N74-10474 *	#
US-PATENT-CLASS-264-12	c 31	N83-									

US-PATENT-CLASS-285-192	c 20	N78-24275 *	#	US-PATENT-CLASS-29-419	c 24	N75-28135 *	#	US-PATENT-CLASS-29-572	c 44	N82-28780 *	#
US-PATENT-CLASS-285-226	c 37	N75-19686 *	#	US-PATENT-CLASS-29-420.5	c 26	N74-10521 *	#	US-PATENT-CLASS-29-572	c 44	N82-29709 *	#
US-PATENT-CLASS-285-226	c 37	N76-14460 *	#	US-PATENT-CLASS-29-420.5	c 37	N74-13179 *	#	US-PATENT-CLASS-29-572	c 44	N83-13579 *	#
US-PATENT-CLASS-285-235	c 54	N78-31735 *	#	US-PATENT-CLASS-29-420.5	c 37	N75-26371 *	#	US-PATENT-CLASS-29-572	c 76	N86-20150 *	#
US-PATENT-CLASS-285-235	c 54	N79-24651 *	#	US-PATENT-CLASS-29-420	c 24	N75-13032 *	#	US-PATENT-CLASS-29-573	c 14	N73-13417 *	#
US-PATENT-CLASS-285-24	c 15	N71-10782 *	#	US-PATENT-CLASS-29-421E	c 37	N79-13364 *	#	US-PATENT-CLASS-29-576E	c 76	N85-30922 *	#
US-PATENT-CLASS-285-265	c 37	N76-14460 *	#	US-PATENT-CLASS-29-421	c 15	N71-29018 *	#	US-PATENT-CLASS-29-576J	c 35	N82-31659 *	#
US-PATENT-CLASS-285-27	c 15	N70-41808 *	#	US-PATENT-CLASS-29-421	c 14	N72-22439 *	#	US-PATENT-CLASS-29-576J	c 76	N85-30922 *	#
US-PATENT-CLASS-285-314	c 15	N71-24903 *	#	US-PATENT-CLASS-29-421	c 37	N76-14461 *	#	US-PATENT-CLASS-29-576S	c 35	N82-31659 *	#
US-PATENT-CLASS-285-316	c 15	N72-25450 *	#	US-PATENT-CLASS-29-423	c 15	N70-36409 *	#	US-PATENT-CLASS-29-576W	c 76	N85-30922 *	#
US-PATENT-CLASS-285-316	c 33	N73-26958 *	#	US-PATENT-CLASS-29-423	c 31	N74-21059 *	#	US-PATENT-CLASS-29-577	c 44	N79-26475 *	#
US-PATENT-CLASS-285-317	c 15	N71-24903 *	#	US-PATENT-CLASS-29-423	c 52	N84-28389 *	#	US-PATENT-CLASS-29-578	c 26	N72-17820 *	#
US-PATENT-CLASS-285-326	c 37	N79-11402 *	#	US-PATENT-CLASS-29-426	c 15	N72-20444 *	#	US-PATENT-CLASS-29-578	c 33	N78-27326 *	#
US-PATENT-CLASS-285-331	c 15	N70-41629 *	#	US-PATENT-CLASS-29-428	c 15	N71-17686 *	#	US-PATENT-CLASS-29-578	c 44	N79-18444 *	#
US-PATENT-CLASS-285-33	c 15	N72-25450 *	#	US-PATENT-CLASS-29-432	c 37	N76-19437 *	#	US-PATENT-CLASS-29-578	c 44	N79-26475 *	#
US-PATENT-CLASS-285-345	c 15	N72-20445 *	#	US-PATENT-CLASS-29-433	c 37	N76-19437 *	#	US-PATENT-CLASS-29-578	c 33	N81-26360 *	#
US-PATENT-CLASS-285-359	c 37	N79-11402 *	#	US-PATENT-CLASS-29-446	c 37	N83-36482 *	#	US-PATENT-CLASS-29-578	c 76	N85-30922 *	#
US-PATENT-CLASS-285-37	c 37	N82-24490 *	#	US-PATENT-CLASS-29-447	c 37	N77-23482 *	#	US-PATENT-CLASS-29-580	c 09	N73-27150 *	#
US-PATENT-CLASS-285-38	c 15	N71-24903 *	#	US-PATENT-CLASS-29-451	c 52	N84-28389 *	#	US-PATENT-CLASS-29-580	c 44	N79-26475 *	#
US-PATENT-CLASS-285-3	c 15	N69-27490 *	#	US-PATENT-CLASS-29-452	c 15	N73-30457 *	#	US-PATENT-CLASS-29-580	c 33	N81-26360 *	#
US-PATENT-CLASS-285-3	c 15	N72-25450 *	#	US-PATENT-CLASS-29-458	c 26	N83-10170 *	#	US-PATENT-CLASS-29-588	c 14	N71-27334 *	#
US-PATENT-CLASS-285-401	c 37	N82-24494 *	#	US-PATENT-CLASS-29-460	c 37	N74-11301 *	#	US-PATENT-CLASS-29-588	c 14	N72-31446 *	#
US-PATENT-CLASS-285-406	c 15	N71-24903 *	#	US-PATENT-CLASS-29-460	c 37	N75-13261 *	#	US-PATENT-CLASS-29-588	c 44	N74-14784 *	#
US-PATENT-CLASS-285-410	c 05	N72-11085 *	#	US-PATENT-CLASS-29-463	c 07	N78-33101 *	#	US-PATENT-CLASS-29-588	c 44	N80-14474 *	#
US-PATENT-CLASS-285-45	c 15	N71-28937 *	#	US-PATENT-CLASS-29-467	c 39	N76-31562 *	#	US-PATENT-CLASS-29-589	c 26	N72-17820 *	#
US-PATENT-CLASS-285-89	c 37	N82-24494 *	#	US-PATENT-CLASS-29-470.1	c 37	N74-21057 *	#	US-PATENT-CLASS-29-589	c 09	N72-25261 *	#
US-PATENT-CLASS-287-119	c 15	N70-41829 *	#	US-PATENT-CLASS-29-470.1	c 37	N75-13236 *	#	US-PATENT-CLASS-29-589	c 15	N73-14469 *	#
US-PATENT-CLASS-287-189.365	c 15	N71-26312 *	#	US-PATENT-CLASS-29-472.7	c 37	N75-15992 *	#	US-PATENT-CLASS-29-589	c 44	N79-31752 *	#
US-PATENT-CLASS-287-189.36	c 15	N71-10799 *	#	US-PATENT-CLASS-29-472.9	c 15	N69-39786 *	#	US-PATENT-CLASS-29-590	c 09	N72-22199 *	#
US-PATENT-CLASS-287-54A	c 11	N72-25287 *	#	US-PATENT-CLASS-29-472.9	c 26	N71-16037 *	#	US-PATENT-CLASS-29-591	c 15	N73-14469 *	#
US-PATENT-CLASS-287-85R	c 15	N73-12488 *	#	US-PATENT-CLASS-29-472.9	c 15	N72-22492 *	#	US-PATENT-CLASS-29-591	c 44	N79-18444 *	#
US-PATENT-CLASS-287-92	c 31	N73-32749 *	#	US-PATENT-CLASS-29-473.1	c 15	N72-22487 *	#	US-PATENT-CLASS-29-592	c 35	N75-13213 *	#
US-PATENT-CLASS-29-DIG.1	c 44	N81-14389 *	#	US-PATENT-CLASS-29-473.1	c 15	N72-22492 *	#	US-PATENT-CLASS-29-597	c 33	N77-26385 *	#
US-PATENT-CLASS-29-DIG.24	c 24	N75-33181 *	#	US-PATENT-CLASS-29-473.1	c 37	N75-15992 *	#	US-PATENT-CLASS-29-599	c 15	N72-25447 *	#
US-PATENT-CLASS-29-DIG.35	c 37	N77-23482 *	#	US-PATENT-CLASS-29-475	c 37	N75-12326 *	#	US-PATENT-CLASS-29-599	c 26	N73-26752 *	#
US-PATENT-CLASS-29-DIG.39	c 24	N75-33181 *	#	US-PATENT-CLASS-29-482	c 05	N72-25121 *	#	US-PATENT-CLASS-29-599	c 26	N73-32571 *	#
US-PATENT-CLASS-29-125	c 37	N79-10422 *	#	US-PATENT-CLASS-29-482	c 37	N74-18128 *	#	US-PATENT-CLASS-29-603	c 08	N71-27210 *	#
US-PATENT-CLASS-29-148.4A	c 37	N74-15128 *	#	US-PATENT-CLASS-29-487	c 15	N73-33383 *	#	US-PATENT-CLASS-29-604	c 24	N75-13032 *	#
US-PATENT-CLASS-29-148.4B	c 37	N74-15128 *	#	US-PATENT-CLASS-29-487	c 37	N74-21055 *	#	US-PATENT-CLASS-29-610SG	c 35	N85-21598 *	#
US-PATENT-CLASS-29-148.4	c 15	N71-16052 *	#	US-PATENT-CLASS-29-488	c 15	N70-33311 *	#	US-PATENT-CLASS-29-610	c 24	N75-30260 *	#
US-PATENT-CLASS-29-148.4	c 15	N71-17688 *	#	US-PATENT-CLASS-29-488	c 37	N74-18128 *	#	US-PATENT-CLASS-29-613	c 24	N75-30260 *	#
US-PATENT-CLASS-29-155.55	c 15	N71-15986 *	#	US-PATENT-CLASS-29-492	c 15	N71-20443 *	#	US-PATENT-CLASS-29-613	c 35	N82-24470 *	#
US-PATENT-CLASS-29-156.8R	c 37	N78-24544 *	#	US-PATENT-CLASS-29-492	c 09	N72-25261 *	#	US-PATENT-CLASS-29-620	c 35	N82-31659 *	#
US-PATENT-CLASS-29-157.3H	c 74	N83-19596 *	#	US-PATENT-CLASS-29-494	c 15	N73-33383 *	#	US-PATENT-CLASS-29-622	c 33	N77-26385 *	#
US-PATENT-CLASS-29-157.3R	c 34	N74-18552 *	#	US-PATENT-CLASS-29-494	c 37	N74-21055 *	#	US-PATENT-CLASS-29-623.5	c 44	N83-32176 *	#
US-PATENT-CLASS-29-157.3	c 28	N70-41818 *	#	US-PATENT-CLASS-29-494	c 37	N75-13261 *	#	US-PATENT-CLASS-29-623.5	c 26	N84-22734 *	#
US-PATENT-CLASS-29-157	c 28	N71-15658 *	#	US-PATENT-CLASS-29-495	c 15	N71-21078 *	#	US-PATENT-CLASS-29-623.5	c 44	N84-28205 *	#
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US-PATENT-CLASS-340-147C	c 60	N76-14818 *	#	US-PATENT-CLASS-340-228.2	c 10	N72-17173 *	#	US-PATENT-CLASS-340-650	c 33	N79-18193 *
US-PATENT-CLASS-340-147R	c 07	N73-20176 *	#	US-PATENT-CLASS-340-228S	c 14	N73-16484 *	#	US-PATENT-CLASS-340-664	c 33	N79-18193 *
US-PATENT-CLASS-340-147R	c 60	N76-14818 *	#	US-PATENT-CLASS-340-233	c 14	N71-25901 *	#	US-PATENT-CLASS-340-705	c 06	N84-27733 *
US-PATENT-CLASS-340-147SY	c 17	N76-22245 *	#	US-PATENT-CLASS-340-235	c 10	N71-26334 *	#	US-PATENT-CLASS-340-81F	c 71	N79-23753 *
US-PATENT-CLASS-340-147	c 09	N70-33182 *	#	US-PATENT-CLASS-340-237S	c 45	N76-17656 *	#	US-PATENT-CLASS-340-8R	c 35	N74-16135 *
US-PATENT-CLASS-340-147	c 09	N70-38998 *	#	US-PATENT-CLASS-340-240	c 09	N72-27227 *	#	US-PATENT-CLASS-340-825.21	c 60	N84-28492 *
US-PATENT-CLASS-340-15.5GC	c 14	N73-26432 *	#	US-PATENT-CLASS-340-242	c 35	N75-19612 *	#	US-PATENT-CLASS-340-825.5	c 60	N84-28492 *
US-PATENT-CLASS-340-150	c 10	N71-27272 *	#	US-PATENT-CLASS-340-248	c 10	N71-27338 *	#	US-PATENT-CLASS-340-825.8R	c 33	N82-29538 *
US-PATENT-CLASS-340-151	c 33	N74-27862 *	#	US-PATENT-CLASS-340-258R	c 07	N73-25160 *	#	US-PATENT-CLASS-340-870.13	c 35	N84-22934 *
US-PATENT-CLASS-340-163	c 07	N73-20176 *	#	US-PATENT-CLASS-340-258	c 10	N72-28240 *	#	US-PATENT-CLASS-340-870.24	c 33	N81-14221 *
US-PATENT-CLASS-340-164	c 10	N71-27272 *	#	US-PATENT-CLASS-340-25	c 14	N73-16483 *	#	US-PATENT-CLASS-340-905	c 35	N84-33769 *
US-PATENT-CLASS-340-166	c 10	N71-27272 *	#	US-PATENT-CLASS-340-262	c 54	N78-32720 *	#	US-PATENT-CLASS-340-971	c 06	N84-27733 *
US-PATENT-CLASS-340-166	c 10	N73-32144 *	#	US-PATENT-CLASS-340-26	c 21	N72-22619 *	#	US-PATENT-CLASS-340-975	c 06	N84-27733 *
US-PATENT-CLASS-340-167	c 07	N72-25173 *	#	US-PATENT-CLASS-340-26	c 04	N82-16059 *	#	US-PATENT-CLASS-340-978	c 06	N84-27733 *
US-PATENT-CLASS-340-171	c 09	N72-22202 *	#	US-PATENT-CLASS-340-27AT	c 21	N73-14692 *	#	US-PATENT-CLASS-340-97	c 21	N73-13643 *
US-PATENT-CLASS-340-171	c 16	N73-16536 *	#	US-PATENT-CLASS-340-27NA	c 21	N73-13643 *	#	US-PATENT-CLASS-340-980	c 06	N84-27733 *
US-PATENT-CLASS-340-172.5	c 08	N69-21928 *	#	US-PATENT-CLASS-340-27NA	c 06	N82-16075 *	#	US-PATENT-CLASS-340-988	c 35	N84-33769 *
US-PATENT-CLASS-340-172.5	c 09	N69-24333 *	#	US-PATENT-CLASS-340-27R	c 14	N73-16483 *	#	US-PATENT-CLASS-343-DIG.2	c 07	N73-24176 *
US-PATENT-CLASS-340-172.5	c 08	N71-12502 *	#	US-PATENT-CLASS-340-27R	c 14	N73-20474 *	#	US-PATENT-CLASS-343-DIG.2	c 33	N74-20860 *
US-PATENT-CLASS-340-172.5	c 08	N71-12506 *	#	US-PATENT-CLASS-340-27SS	c 35	N78-14364 *	#	US-PATENT-CLASS-343-DIG.3	c 09	N72-12136 *
US-PATENT-CLASS-340-172.5	c 31	N71-15566 *	#	US-PATENT-CLASS-340-271	c 35	N77-30436 *	#	US-PATENT-CLASS-343-DIG2	c 07	N83-20944 *
US-PATENT-CLASS-340-172.5	c 08	N71-19288 *	#	US-PATENT-CLASS-340-277	c 10	N73-30205 *	#	US-PATENT-CLASS-343-100AP	c 33	N83-36355 *
US-PATENT-CLASS-340-172.5	c 08	N71-22707 *	#	US-PATENT-CLASS-340-279	c 05	N72-16015 *	#	US-PATENT-CLASS-343-100CL	c 32	N77-32342 *
US-PATENT-CLASS-340-172.5	c 08	N71-22710 *	#	US-PATENT-CLASS-340-279	c 10	N73-30205 *	#	US-PATENT-CLASS-343-100CL	c 32	N79-14268 *
US-PATENT-CLASS-340-172.5	c 07	N71-24624 *	#	US-PATENT-CLASS-340-279	c 54	N78-32720 *	#	US-PATENT-CLASS-343-100CL	c 32	N81-29308 *
US-PATENT-CLASS-340-172.5	c 08	N71-27255 *	#	US-PATENT-CLASS-340-285	c 14	N71-25901 *	#	US-PATENT-CLASS-343-100CL	c 32	N83-18975 *
US-PATENT-CLASS-340-172.5	c 07	N72-25172 *	#	US-PATENT-CLASS-340-285	c 54	N78-32720 *	#	US-PATENT-CLASS-343-100CL	c 32	N83-19968 *
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US-PATENT-CLASS-340-172.5	c 09	N72-25248 *	#	US-PATENT-CLASS-340-309.4	c 33	N81-14221 *	#	US-PATENT-CLASS-343-100ME	c 14	N73-26432 *
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US-PATENT-CLASS-340-172.5	c 60	N76-18800 *	#	US-PATENT-CLASS-340-324AD	c 33	N75-19517 *	#	US-PATENT-CLASS-343-100ME	c 46	N82-12685 *
US-PATENT-CLASS-340-172.5	c 60	N76-21914 *	#	US-PATENT-CLASS-340-324A	c 09	N72-25248 *	#	US-PATENT-CLASS-343-100ME	c 06	N83-10040 *
US-PATENT-CLASS-340-172.5	c 60	N77-12721 *	#	US-PATENT-CLASS-340-324R	c 26	N72-25680 *	#	US-PATENT-CLASS-343-100PE	c 32	N75-24982 *
US-PATENT-CLASS-340-172.5	c 60	N77-14751 *	#	US-PATENT-CLASS-340-324	c 08	N71-12507 *	#	US-PATENT-CLASS-343-100PE	c 33	N81-26358 *
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US-PATENT-CLASS-340-173.2	c 08	N72-21198 *	#	US-PATENT-CLASS-340-332	c 09	N72-25250 *	#	US-PATENT-CLASS-343-100PE	c 35	N82-15381 *
US-PATENT-CLASS-340-173CA	c 33	N75-31331 *	#	US-PATENT-CLASS-340-336	c 09	N71-33519 *	#	US-PATENT-CLASS-343-100R	c 10	N73-16206 *
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US-PATENT-CLASS-340-173LS	c 08	N72-21198 *	#	US-PATENT-CLASS-340-347AD	c 08	N72-22163 *	#	US-PATENT-CLASS-343-100SA	c 17	N76-21250 *
US-PATENT-CLASS-340-173LS	c 36	N75-19652 *	#	US-PATENT-CLASS-340-347AD	c 08	N72-22166 *	#	US-PATENT-CLASS-343-100ST	c 32	N80-28578 *
US-PATENT-CLASS-340-173	c 10	N73-32144 *	#	US-PATENT-CLASS-340-347AD	c 08	N73-31226 *	#	US-PATENT-CLASS-343-100ST	c 07	N72-21118 *
US-PATENT-CLASS-340-174.1L	c 35	N74-11283 *	#	US-PATENT-CLASS-340-347AD	c 08	N73-20217 *	#	US-PATENT-CLASS-343-100ST	c 33	N74-20860 *
US-PATENT-CLASS-340-174.1M	c 36	N74-13205 *	#	US-PATENT-CLASS-340-347AD	c 35	N74-17885 *	#	US-PATENT-CLASS-343-100ST	c 32	N75-15854 *
US-PATENT-CLASS-340-174.1M	c 35	N78-29421 *	#	US-PATENT-CLASS-340-347AD	c 35	N74-28277 *	#	US-PATENT-CLASS-343-100ST	c 17	N76-21250 *
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US-PATENT-CLASS-340-174.1R	c 21	N73-13644 *	#	US-PATENT-CLASS-340-347AD	c 60	N77-32731 *	#	US-PATENT-CLASS-343-100ST	c 33	N80-18287 *
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US-PATENT-CLASS-340-174.1	c 08	N71-27210 *	#	US-PATENT-CLASS-340-347DA	c 08	N72-25206 *	#	US-PATENT-CLASS-343-100	c 10	N71-18722 *
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US-PATENT-CLASS-340-174M	c 08	N72-21199 *	#	US-PATENT-CLASS-340-347DD	c 60	N76-23850 *	#	US-PATENT-CLASS-343-100	c 07	N71-28900 *
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US-PATENT-CLASS-343-112R	c 32	N81-27341 *	#	US-PATENT-CLASS-343-6.5R	c 08	N72-25209 *	#	US-PATENT-CLASS-343-786	c 32	N76-21365 *	#
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US-PATENT-CLASS-343-113	c 10	N71-21473 *	#	US-PATENT-CLASS-343-6.5SS	c 32	N74-12912 *	#	US-PATENT-CLASS-343-797	c 09	N71-24842 *	#
US-PATENT-CLASS-343-113	c 07	N71-24625 *	#	US-PATENT-CLASS-343-6.5	c 21	N71-11766 *	#	US-PATENT-CLASS-343-797	c 07	N72-22127 *	#
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US-PATENT-CLASS-343-118	c 32	N79-13214 *	#	US-PATENT-CLASS-343-6.8R	c 07	N72-12080 *	#	US-PATENT-CLASS-343-797	c 32	N74-20863 *	#
US-PATENT-CLASS-343-119	c 44	N78-28594 *	#	US-PATENT-CLASS-343-6.8R	c 07	N73-25161 *	#	US-PATENT-CLASS-343-797	c 33	N76-14372 *	#
US-PATENT-CLASS-343-12R	c 08	N72-25209 *	#	US-PATENT-CLASS-343-6.8R	c 14	N73-25461 *	#	US-PATENT-CLASS-343-797	c 32	N81-14187 *	#
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US-PATENT-CLASS-343-12	c 10	N72-20224 *	#	US-PATENT-CLASS-343-6.8R	c 30	N71-16090 *	#	US-PATENT-CLASS-343-803	c 07	N73-28013 *	#
US-PATENT-CLASS-343-13R	c 74	N85-34629 *	#	US-PATENT-CLASS-343-7.4	c 10	N72-22235 *	#	US-PATENT-CLASS-343-823	c 07	N71-28979 *	#
US-PATENT-CLASS-343-13	c 09	N71-18598 *	#	US-PATENT-CLASS-343-7.4	c 32	N79-13214 *	#	US-PATENT-CLASS-343-830	c 32	N80-32604 *	#
US-PATENT-CLASS-343-14	c 07	N70-41680 *	#	US-PATENT-CLASS-343-7.5	c 07	N69-39974 *	#	US-PATENT-CLASS-343-833	c 31	N70-34135 *	#
US-PATENT-CLASS-343-14	c 08	N72-25209 *	#	US-PATENT-CLASS-343-7.5	c 09	N71-24595 *	#	US-PATENT-CLASS-343-837	c 07	N72-32169 *	#
US-PATENT-CLASS-343-14	c 14	N73-25461 *	#	US-PATENT-CLASS-343-7.5	c 07	N72-11149 *	#	US-PATENT-CLASS-343-837	c 07	N73-14130 *	#
US-PATENT-CLASS-343-14	c 32	N79-14267 *	#	US-PATENT-CLASS-343-7.5	c 44	N74-19870 *	#	US-PATENT-CLASS-343-837	c 33	N75-19516 *	#
US-PATENT-CLASS-343-14	c 31	N79-28370 *	#	US-PATENT-CLASS-343-7.5	c 32	N82-23376 *	#	US-PATENT-CLASS-343-837	c 32	N76-15329 *	#
US-PATENT-CLASS-343-16M	c 10	N72-22235 *	#	US-PATENT-CLASS-343-700MS	c 32	N78-24391 *	#	US-PATENT-CLASS-343-837	c 32	N76-18295 *	#
US-PATENT-CLASS-343-16M	c 44	N78-28594 *	#	US-PATENT-CLASS-343-700MS	c 32	N80-32604 *	#	US-PATENT-CLASS-343-837	c 32	N78-31321 *	#
US-PATENT-CLASS-343-16M	c 09	N71-20864 *	#	US-PATENT-CLASS-343-700MS	c 32	N82-11336 *	#	US-PATENT-CLASS-343-839	c 09	N73-19234 *	#
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US-PATENT-CLASS-343-17.2PC	c 32	N85-34327 *	#	US-PATENT-CLASS-343-705	c 07	N70-38200 *	#	US-PATENT-CLASS-343-840	c 07	N72-32169 *	#
US-PATENT-CLASS-343-17.2PC	c 35	N79-10391 *	#	US-PATENT-CLASS-343-705	c 07	N70-40202 *	#	US-PATENT-CLASS-343-840	c 32	N76-18295 *	#
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US-PATENT-CLASS-343-17.7	c 07	N71-12391 *	#	US-PATENT-CLASS-343-708	c 07	N71-22984 *	#	US-PATENT-CLASS-343-846	c 32	N82-11336 *	#
US-PATENT-CLASS-343-17.7	c 44	N74-19870 *	#	US-PATENT-CLASS-343-708	c 07	N71-28980 *	#	US-PATENT-CLASS-343-853	c 07	N72-11148 *	#
US-PATENT-CLASS-343-17.7	c 32	N77-31350 *	#	US-PATENT-CLASS-343-708	c 09	N72-25247 *	#	US-PATENT-CLASS-343-853	c 07	N72-22127 *	#
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US-PATENT-CLASS-343-176	c 32	N76-14321 *	#	US-PATENT-CLASS-343-725	c 07	N73-28013 *	#	US-PATENT-CLASS-343-853	c 32	N74-20864 *	#
US-PATENT-CLASS-343-179	c 07	N72-11149 *	#	US-PATENT-CLASS-343-727	c 32	N81-14187 *	#	US-PATENT-CLASS-343-854	c 07	N69-27460 *	#
US-PATENT-CLASS-343-179	c 07	N73-20174 *	#	US-PATENT-CLASS-343-727	c 32	N82-11336 *	#	US-PATENT-CLASS-343-854	c 07	N71-27233 *	#
US-PATENT-CLASS-343-179	c 32	N78-15323 *	#	US-PATENT-CLASS-343-729	c 07	N73-28013 *	#	US-PATENT-CLASS-343-854	c 09	N73-19234 *	#
US-PATENT-CLASS-343-179	c 32	N79-20296 *	#	US-PATENT-CLASS-343-730	c 32	N74-20863 *	#	US-PATENT-CLASS-343-854	c 33	N74-20860 *	#
US-PATENT-CLASS-343-18A	c 32	N80-14281 *	#	US-PATENT-CLASS-343-754	c 09	N73-19234 *	#	US-PATENT-CLASS-343-854	c 33	N76-27472 *	#
US-PATENT-CLASS-343-18B	c 32	N74-12912 *	#	US-PATENT-CLASS-343-755	c 33	N76-27472 *	#	US-PATENT-CLASS-343-854	c 32	N79-11264 *	#
US-PATENT-CLASS-343-18B	c 32	N77-21267 *	#	US-PATENT-CLASS-343-755	c 32	N81-25278 *	#	US-PATENT-CLASS-343-854	c 32	N80-28578 *	#
US-PATENT-CLASS-343-18B	c 43	N80-18498 *	#	US-PATENT-CLASS-343-761	c 33	N75-19516 *	#	US-PATENT-CLASS-343-872	c 07	N71-28980 *	#
US-PATENT-CLASS-343-18D	c 43	N80-18498 *	#	US-PATENT-CLASS-343-761	c 32	N76-21365 *	#	US-PATENT-CLASS-343-873	c 07	N71-19493 *	#
US-PATENT-CLASS-343-18	c 31	N70-37981 *	#	US-PATENT-CLASS-343-762	c 07	N72-25174 *	#	US-PATENT-CLASS-343-873	c 09	N72-25247 *	#
US-PATENT-CLASS-343-18	c 07	N70-40063 *	#	US-PATENT-CLASS-343-768	c 10	N71-26142 *	#	US-PATENT-CLASS-343-876	c 32	N76-15329 *	#
US-PATENT-CLASS-343-18	c 30	N70-40309 *	#	US-PATENT-CLASS-343-769	c 32	N74-20864 *	#	US-PATENT-CLASS-343-876	c 32	N85-29118 *	#
US-PATENT-CLASS-343-18	c 07	N70-41678 *	#	US-PATENT-CLASS-343-770	c 09	N73-31235 *	#	US-PATENT-CLASS-343-880	c 07	N73-26117 *	#
US-PATENT-CLASS-343-200	c 07	N73-16121 *	#	US-PATENT-CLASS-343-770	c 33	N76-14372 *	#	US-PATENT-CLASS-343-880	c 18	N80-14183 *	#
US-PATENT-CLASS-343-204	c 07	N73-26118 *	#	US-PATENT-CLASS-343-771	c 07	N71-28809 *	#	US-PATENT-CLASS-343-882	c 33	N76-32457 *	#
US-PATENT-CLASS-343-225	c 17	N78-17140 *	#	US-PATENT-CLASS-343-771	c 07	N72-11148 *	#	US-PATENT-CLASS-343-883	c 07	N73-26117 *	#
US-PATENT-CLASS-343-352	c 43	N85-21723 *	#	US-PATENT-CLASS-343-771	c 09	N72-21244 *	#	US-PATENT-CLASS-343-883	c 18	N80-14183 *	#
US-PATENT-CLASS-343-352	c 46	N85-21846 *	#	US-PATENT-CLASS-343-771	c 07	N72-22127 *	#	US-PATENT-CLASS-343-884	c 07	N71-27191 *	#
US-PATENT-CLASS-343-356	c 04	N84-22546 *	#	US-PATENT-CLASS-343-771	c 09	N72-25247 *	#	US-PATENT-CLASS-343-889	c 07	N73-26117 *	#
US-PATENT-CLASS-343-357	c 04	N84-22546 *	#	US-PATENT-CLASS-343-771	c 09	N72-31235 *	#	US-PATENT-CLASS-343-893	c 09	N72-21244 *	#
US-PATENT-CLASS-343-376	c 33	N85-21493 *	#	US-PATENT-CLASS-343-772	c 07	N72-20141 *	#	US-PATENT-CLASS-343-893	c 09	N73-28013 *	#
US-PATENT-CLASS-343-460	c 46	N85-21846 *	#	US-PATENT-CLASS-343-772	c 32	N81-25278 *	#	US-PATENT-CLASS-343-895	c 09	N73-19234 *	#
US-PATENT-CLASS-343-5-CD	c 43	N86-19711 *	#	US-PATENT-CLASS-343-773	c 07	N72-20141 *	#	US-PATENT-CLASS-343-895	c 07	N73-26117 *	#
US-PATENT-CLASS-343-5-CM	c 32	N84-34651 *	#	US-PATENT-CLASS-343-776	c 07	N71-12396 *	#	US-PATENT-CLASS-343-895	c 32	N80-23524 *	#
US-PATENT-CLASS-343-5-CM	c 32	N85-34327 *	#	US-PATENT-CLASS-343-777	c 07	N71-27233 *	#	US-PATENT-CLASS-343-895	c 32	N82-27558 *	#
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US-PATENT-CLASS-343-5-DP	c 32	N84-34651 *	#	US-PATENT-CLASS-343-779	c 07	N71-11285 *	#	US-PATENT-CLASS-343-9PS	c 32	N83-31918 *	#
US-PATENT-CLASS-343-5-FT	c 32	N84-34651 *	#	US-PATENT-CLASS-343-779	c 10	N72-22235 *	#	US-PATENT-CLASS-343-9R	c 32	N84-22820 *	#
US-PATENT-CLASS-343-5-VQ	c 43	N86-19711 *	#	US-PATENT-CLASS-343-779	c 07	N72-25174 *	#	US-PATENT-CLASS-343-909	c 32	N74-11000 *	#
US-PATENT-CLASS-343-5-W	c 32	N85-34327 *	#	US-PATENT-CLASS-343-779	c 32	N76-15329 *	#	US-PATENT-CLASS-343-909	c 35	N76-15435 *	#
US-PATENT-CLASS-343-5CM	c 07	N72-21118 *	#	US-PATENT-CLASS-343-779	c 33	N76-27472 *	#	US-PATENT-CLASS-343-909	c 33	N79-28416 *	#
US-PATENT-CLASS-343-5CM	c 32	N77-21267 *	#	US-PATENT-CLASS-343-781CA	c 32	N78-31321 *	#	US-PATENT-CLASS-343-909	c 32	N80-14281 *	#
US-PATENT-CLASS-343-5CM	c 32	N77-32342 *	#	US-PATENT-CLASS-343-781P	c 46	N82-12685 *	#	US-PATENT-CLASS-343-912	c 07	N72-21117 *	#
US-PATENT-CLASS-343-5CM	c 35	N79-10391 *	#	US-PATENT-CLASS-343-781R	c 32	N81-25278 *	#	US-PATENT-CLASS-343-912	c 07	N72-22127 *	#
US-PATENT-CLASS-343-5CM	c 32	N79-14268 *	#	US-PATENT-CLASS-343-781	c 09	N70-35219 *	#	US-PATENT-CLASS-343-912	c 32	N76-18295 *	#
US-PATENT-CLASS-343-5CM	c 43	N80-18498 *	#	US-PATENT-CLASS-343-781	c 09	N70-35382 *	#	US-PATENT-CLASS-343-915	c 31	N71-16102 *	#
US-PATENT-CLASS-343-5CM	c 32	N82-12297 *	#	US-PATENT-CLASS-343-781	c 09	N70-35425 *	#	US-PATENT-CLASS-343-915	c 09	N71-20658 *	#
US-PATENT-CLASS-343-5CM	c 32	N83-18975 *	#	US-PATENT-CLASS-343-781	c 07	N72-32169 *	#	US-PATENT-CLASS-343-915	c 07	N72-32169 *	#
US-PATENT-CLASS-343-5CM	c 32	N83-19968 *	#	US-PATENT-CLASS-343-781	c 32	N74-11000 *	#	US-PATENT-CLASS-343-915	c 07	N73-14130 *	#
US-PATENT-CLASS-343-5CM	c 32	N83-31918 *	#	US-PATENT-CLASS-343-781	c 33	N75-19516 *	#	US-PATENT-CLASS-343-915	c 07	N73-24176 *	#
US-PATENT-CLASS-343-5DP	c 07	N72-11149 *	#	US-PATENT-CLASS-343-782	c 32	N76-21365 *	#	US-PATENT-CLASS-343-915	c 32	N76-18295 *	#
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US-PATENT-CLASS-343-5DP	c 32	N77-32342 *	#	US-PATENT-CLASS-343-782	c 32	N78-31321 *	#	US-PATENT-CLASS-343-9	c 32	N75-15854 *	#
US-PATENT-CLASS-343-5DP	c 32	N82-23376 *	#	US-PATENT-CLASS-343-784	c 07	N71-28980 *	#	US-PATENT-CLASS-346-107A	c 14	N79-10264 *	#
US-PATENT-CLASS-343-5GC	c 32	N75-24982 *	#	US-PATENT-CLASS-343-786	c 07	N71-15907 *	#	US-PATENT-CLASS-346-108	c 23	N74-15831 *	#
US											

US-PATENT-CLASS-346-29	c 09	N72-21246 *	#	US-PATENT-CLASS-350-269	c 33	N74-20861 *	#	US-PATENT-CLASS-350-52	c 14	N72-22441 *	#
US-PATENT-CLASS-346-33R	c 35	N74-32877 *	#	US-PATENT-CLASS-350-26	c 14	N72-22441 *	#	US-PATENT-CLASS-350-52	c 14	N72-22444 *	#
US-PATENT-CLASS-346-44	c 09	N69-21467 *	#	US-PATENT-CLASS-350-270	c 70	N74-21300 *	#	US-PATENT-CLASS-350-537	c 74	N86-20125 *	#
US-PATENT-CLASS-346-50	c 14	N71-21006 *	#	US-PATENT-CLASS-350-275	c 09	N71-19479 *	#	US-PATENT-CLASS-350-55	c 23	N71-33229 *	#
US-PATENT-CLASS-346-74MD	c 21	N73-13644 *	#	US-PATENT-CLASS-350-276-R	c 74	N86-20125 *	#	US-PATENT-CLASS-350-55	c 14	N73-30393 *	#
US-PATENT-CLASS-346-74MT	c 35	N79-16246 *	#	US-PATENT-CLASS-350-285	c 14	N71-15605 *	#	US-PATENT-CLASS-350-55	c 23	N73-30666 *	#
US-PATENT-CLASS-346R	c 73	N77-18891 *	#	US-PATENT-CLASS-350-285	c 14	N71-17662 *	#	US-PATENT-CLASS-350-55	c 89	N79-10969 *	#
US-PATENT-CLASS-349	c 25	N79-28253 *	#	US-PATENT-CLASS-350-285	c 19	N71-26674 *	#	US-PATENT-CLASS-350-55	c 74	N80-33210 *	#
US-PATENT-CLASS-35-10.2	c 14	N71-15621 *	#	US-PATENT-CLASS-350-285	c 15	N72-11386 *	#	US-PATENT-CLASS-350-580	c 74	N86-20125 *	#
US-PATENT-CLASS-35-12C	c 14	N73-27377 *	#	US-PATENT-CLASS-350-285	c 16	N73-33397 *	#	US-PATENT-CLASS-350-58	c 14	N71-15604 *	#
US-PATENT-CLASS-35-12C	c 09	N75-15662 *	#	US-PATENT-CLASS-350-285	c 74	N74-15095 *	#	US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	#
US-PATENT-CLASS-35-12C	c 74	N79-13855 *	#	US-PATENT-CLASS-350-285	c 74	N80-21138 *	#	US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	#
US-PATENT-CLASS-35-12E	c 09	N74-30597 *	#	US-PATENT-CLASS-350-286	c 07	N71-29065 *	#	US-PATENT-CLASS-350-619	c 74	N85-23396 *	#
US-PATENT-CLASS-35-12E	c 09	N79-31228 *	#	US-PATENT-CLASS-350-286	c 73	N78-32848 *	#	US-PATENT-CLASS-350-6	c 14	N69-27461 *	#
US-PATENT-CLASS-35-12H	c 09	N79-31228 *	#	US-PATENT-CLASS-350-286	c 74	N83-10900 *	#	US-PATENT-CLASS-350-6	c 36	N74-15145 *	#
US-PATENT-CLASS-35-12N	c 09	N76-24280 *	#	US-PATENT-CLASS-350-287	c 15	N72-11386 *	#	US-PATENT-CLASS-350-79	c 14	N72-32452 *	#
US-PATENT-CLASS-35-12N	c 09	N78-18083 *	#	US-PATENT-CLASS-350-287	c 74	N83-13978 *	#	US-PATENT-CLASS-350-7	c 74	N74-15095 *	#
US-PATENT-CLASS-35-12N	c 74	N79-13855 *	#	US-PATENT-CLASS-350-288	c 23	N71-29123 *	#	US-PATENT-CLASS-350-86	c 14	N72-22445 *	#
US-PATENT-CLASS-35-12	c 11	N70-34815 *	#	US-PATENT-CLASS-350-288	c 12	N76-15189 *	#	US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	#
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US-PATENT-CLASS-35-12	c 11	N71-10748 *	#	US-PATENT-CLASS-350-288	c 44	N79-24433 *	#	US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	#
US-PATENT-CLASS-35-12	c 11	N71-10776 *	#	US-PATENT-CLASS-350-292	c 35	N75-12273 *	#	US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	#
US-PATENT-CLASS-35-12	c 11	N71-18773 *	#	US-PATENT-CLASS-350-292	c 44	N79-14529 *	#	US-PATENT-CLASS-350-96R	c 60	N77-14751 *	#
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US-PATENT-CLASS-35-12	c 11	N71-21474 *	#	US-PATENT-CLASS-350-293	c 16	N73-16536 *	#	US-PATENT-CLASS-350-96R	c 60	N78-10709 *	#
US-PATENT-CLASS-35-12	c 18	N76-14186 *	#	US-PATENT-CLASS-350-293	c 12	N76-15189 *	#	US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	#
US-PATENT-CLASS-35-17	c 05	N71-24606 *	#	US-PATENT-CLASS-350-293	c 44	N76-24696 *	#	US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	#
US-PATENT-CLASS-35-19	c 10	N71-27365 *	#	US-PATENT-CLASS-350-293	c 44	N78-10554 *	#	US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	#
US-PATENT-CLASS-35-22R	c 05	N73-13114 *	#	US-PATENT-CLASS-350-293	c 44	N79-14529 *	#	US-PATENT-CLASS-350-96	c 07	N71-26291 *	#
US-PATENT-CLASS-35-29	c 11	N71-16028 *	#	US-PATENT-CLASS-350-294	c 89	N79-10969 *	#	US-PATENT-CLASS-351-166	c 74	N78-32854 *	#
US-PATENT-CLASS-35-29	c 05	N71-28619 *	#	US-PATENT-CLASS-350-294	c 44	N79-24432 *	#	US-PATENT-CLASS-351-23	c 05	N73-26072 *	#
US-PATENT-CLASS-35-35A	c 71	N74-21014 *	#	US-PATENT-CLASS-350-294	c 32	N80-24510 *	#	US-PATENT-CLASS-351-23	c 52	N76-30793 *	#
US-PATENT-CLASS-35-45	c 14	N70-35394 *	#	US-PATENT-CLASS-350-295	c 44	N77-32583 *	#	US-PATENT-CLASS-351-30	c 05	N73-26072 *	#
US-PATENT-CLASS-35-49	c 12	N69-39988 *	#	US-PATENT-CLASS-350-295	c 44	N80-14473 *	#	US-PATENT-CLASS-351-30	c 52	N76-30793 *	#
US-PATENT-CLASS-35-8	c 05	N72-16015 *	#	US-PATENT-CLASS-350-296	c 44	N79-24432 *	#	US-PATENT-CLASS-351-36	c 05	N73-26072 *	#
US-PATENT-CLASS-350-100	c 36	N77-25501 *	#	US-PATENT-CLASS-350-296	c 44	N80-14473 *	#	US-PATENT-CLASS-351-36	c 52	N76-30793 *	#
US-PATENT-CLASS-350-102	c 23	N71-29123 *	#	US-PATENT-CLASS-350-299	c 74	N74-21304 *	#	US-PATENT-CLASS-351-38	c 54	N75-27759 *	#
US-PATENT-CLASS-350-102	c 36	N77-25501 *	#	US-PATENT-CLASS-350-299	c 44	N76-24696 *	#	US-PATENT-CLASS-352-169	c 14	N73-14427 *	#
US-PATENT-CLASS-350-138	c 23	N72-27728 *	#	US-PATENT-CLASS-350-299	c 74	N77-28932 *	#	US-PATENT-CLASS-352-171	c 35	N82-26628 *	#
US-PATENT-CLASS-350-145	c 74	N77-20882 *	#	US-PATENT-CLASS-350-299	c 44	N78-10554 *	#	US-PATENT-CLASS-352-84	c 16	N71-33410 *	#
US-PATENT-CLASS-350-147	c 14	N72-27409 *	#	US-PATENT-CLASS-350-299	c 44	N78-31526 *	#	US-PATENT-CLASS-352-84	c 14	N72-18411 *	#
US-PATENT-CLASS-350-150	c 26	N72-25680 *	#	US-PATENT-CLASS-350-299	c 44	N79-11471 *	#	US-PATENT-CLASS-353-54	c 34	N74-23066 *	#
US-PATENT-CLASS-350-150	c 36	N76-18427 *	#	US-PATENT-CLASS-350-299	c 44	N79-24433 *	#	US-PATENT-CLASS-353-61	c 34	N74-23066 *	#
US-PATENT-CLASS-350-151	c 36	N74-13205 *	#	US-PATENT-CLASS-350-299	c 36	N84-14509 *	#	US-PATENT-CLASS-354-118	c 74	N81-17886 *	#
US-PATENT-CLASS-350-151	c 35	N78-29421 *	#	US-PATENT-CLASS-350-2	c 23	N71-30027 *	#	US-PATENT-CLASS-354-217	c 35	N82-26628 *	#
US-PATENT-CLASS-350-157	c 74	N79-14891 *	#	US-PATENT-CLASS-350-3.5	c 16	N71-15551 *	#	US-PATENT-CLASS-354-234	c 33	N74-20861 *	#
US-PATENT-CLASS-350-159	c 74	N78-17865 *	#	US-PATENT-CLASS-350-3.5	c 16	N71-15565 *	#	US-PATENT-CLASS-354-234	c 70	N74-21300 *	#
US-PATENT-CLASS-350-160R	c 14	N72-25410 *	#	US-PATENT-CLASS-350-3.5	c 16	N71-15567 *	#	US-PATENT-CLASS-354-289	c 35	N82-26628 *	#
US-PATENT-CLASS-350-160R	c 26	N72-25680 *	#	US-PATENT-CLASS-350-3.5	c 16	N71-26154 *	#	US-PATENT-CLASS-354-77	c 74	N79-20856 *	#
US-PATENT-CLASS-350-160	c 36	N76-18427 *	#	US-PATENT-CLASS-350-3.5	c 16	N71-29131 *	#	US-PATENT-CLASS-355-18	c 14	N73-33361 *	#
US-PATENT-CLASS-350-161	c 26	N72-27784 *	#	US-PATENT-CLASS-350-3.5	c 14	N72-17324 *	#	US-PATENT-CLASS-356-103	c 14	N71-28994 *	#
US-PATENT-CLASS-350-161	c 36	N75-31427 *	#	US-PATENT-CLASS-350-3.5	c 16	N73-30476 *	#	US-PATENT-CLASS-356-103	c 36	N75-15028 *	#
US-PATENT-CLASS-350-162R	c 74	N80-21140 *	#	US-PATENT-CLASS-350-3.5	c 35	N74-15146 *	#	US-PATENT-CLASS-356-103	c 74	N78-13874 *	#
US-PATENT-CLASS-350-162SF	c 23	N73-30666 *	#	US-PATENT-CLASS-350-3.5	c 35	N74-17153 *	#	US-PATENT-CLASS-356-104	c 16	N71-24074 *	#
US-PATENT-CLASS-350-162SF	c 74	N76-31998 *	#	US-PATENT-CLASS-350-3.5	c 35	N74-26946 *	#	US-PATENT-CLASS-356-104	c 74	N78-13874 *	#
US-PATENT-CLASS-350-162SF	c 36	N77-28932 *	#	US-PATENT-CLASS-350-3.5	c 35	N75-25124 *	#	US-PATENT-CLASS-356-106LR	c 36	N75-19653 *	#
US-PATENT-CLASS-350-162SF	c 14	N77-32478 *	#	US-PATENT-CLASS-350-3.5	c 35	N75-27328 *	#	US-PATENT-CLASS-356-106R	c 72	N74-19310 *	#
US-PATENT-CLASS-350-162	c 14	N72-17323 *	#	US-PATENT-CLASS-350-3.5	c 35	N76-18402 *	#	US-PATENT-CLASS-356-106R	c 36	N76-14447 *	#
US-PATENT-CLASS-350-165	c 27	N78-31233 *	#	US-PATENT-CLASS-350-3.5	c 35	N78-17357 *	#	US-PATENT-CLASS-356-106R	c 35	N77-10493 *	#
US-PATENT-CLASS-350-166	c 44	N83-34448 *	#	US-PATENT-CLASS-350-3.5	c 38	N78-32447 *	#	US-PATENT-CLASS-356-106R	c 47	N77-10753 *	#
US-PATENT-CLASS-350-168	c 74	N85-23396 *	#	US-PATENT-CLASS-350-301	c 74	N81-17886 *	#	US-PATENT-CLASS-356-106S	c 23	N73-13661 *	#
US-PATENT-CLASS-350-16	c 14	N72-22444 *	#	US-PATENT-CLASS-350-310	c 11	N69-24321 *	#	US-PATENT-CLASS-356-106S	c 35	N76-31490 *	#
US-PATENT-CLASS-350-170	c 73	N78-32848 *	#	US-PATENT-CLASS-350-310	c 23	N71-24868 *	#	US-PATENT-CLASS-356-106S	c 35	N78-18391 *	#
US-PATENT-CLASS-350-170	c 74	N83-10900 *	#	US-PATENT-CLASS-350-310	c 23	N71-29123 *	#	US-PATENT-CLASS-356-106S	c 35	N74-23040 *	#
US-PATENT-CLASS-350-171	c 23	N72-23695 *	#	US-PATENT-CLASS-350-310	c 23	N71-33229 *	#	US-PATENT-CLASS-356-106	c 14	N71-17627 *	#
US-PATENT-CLASS-350-171	c 74	N83-17305 *	#	US-PATENT-CLASS-350-310	c 23	N72-22673 *	#	US-PATENT-CLASS-356-106	c 14	N71-17655 *	#
US-PATENT-CLASS-350-172	c 74	N84-23248 *	#	US-PATENT-CLASS-350-310	c 74	N77-28933 *	#	US-PATENT-CLASS-356-106	c 14	N71-27215 *	#
US-PATENT-CLASS-350-173	c 73	N78-32848 *	#	US-PATENT-CLASS-350-311	c 74	N75-25706 *	#	US-PATENT-CLASS-356-106	c 14	N73-12446 *	#
US-PATENT-CLASS-350-173	c 74	N83-36898 *	#	US-PATENT-CLASS-350-312	c 16	N72-12440 *	#	US-PATENT-CLASS-356-106	c 35	N74-15146 *	#
US-PATENT-CLASS-350-173	c 74	N84-23248 *	#	US-PATENT-CLASS-350-312	c 74	N85-29750 *	#	US-PATENT-CLASS-356-107	c 16	N71-24170 *	#
US-PATENT-CLASS-350-174	c 74	N77-20882 *	#	US-PATENT-CLASS-350-316	c 27	N83-36220 *	#	US-PATENT-CLASS-356-108	c 26	N73-26751 *	#
US-PATENT-CLASS-350-174	c 73	N78-32848 *	#	US-PATENT-CLASS-350-319	c 74	N85-29750 *	#	US-PATENT-CLASS-356-108	c 16	N73-30476 *	#
US-PATENT-CLASS-350-175E	c 74	N80-27185 *	#	US-PATENT-CLASS-350-319	c 74	N86-20125 *	#	US-PATENT-CLASS-356-109	c 16	N73-30476 *	#
US-PATENT-CLASS-350-175FS	c 14	N72-25414 *	#	US-PATENT-CLASS-350-320	c 74	N77-28933 *	#	US-PATENT-CLASS-356-110	c 14	N73-25463 *	#
US-PATENT-CLASS-350-175NG	c 27	N78-31233 *	#	US-PATENT-CLASS-350-320	c 44	N77-32583 *	#	US-PATENT-CLASS-356-110	c 35	N78-18391 *	#
US-PATENT-CLASS-350-189	c 23	N71-24857 *	#	US-PATENT-CLASS-350-320	c 73	N78-32848 *	#	US-PATENT-CLASS-356-112	c 72	N74-19310 *	#
US-PATENT-CLASS-350-199	c 14	N73-30393 *	#	US-PATENT-CLASS-350-320	c 44	N79-14529 *	#	US-PATENT-CLASS-356-113	c 14	N72-17323 *	#
US-PATENT-CLASS-350-19	c 14	N72-22441 *	#	US-PATENT-CLASS-350-320	c 74	N85-29749 *	#	US-PATENT-CLASS-356-113	c 35	N74-23040 *	#
US-PATENT-CLASS-350-1	c 23	N69-24332 *	#	US-PATENT-CLASS-350-321	c 74	N85-29750 *	#	US-PATENT-CLASS-356-114	c 14	N73-12446 *	#
US-PATENT-CLASS-350-1	c 07	N71-29065 *	#	US-PATENT-CLASS-350-335	c 74	N86-21348 *	#	US-PATENT-CLASS-356-114	c 35	N76-31490 *	#
US-PATENT-CLASS-350-1	c 16	N72-12440 *	#	US-PATENT-CLASS-350-342	c 76	N85-33826 *	#	US-PATENT-CLASS-356-117	c 23	N71-16101 *	#
US-PATENT-CLASS-350-1	c 24	N76-24363 *	#	US-PATENT-CLASS-350-353	c 74	N83-19597 *	#	US-PATENT-CLASS-356-120	c 74	N78-27904 *	#
US-PATENT-CLASS-350-1	c 74	N78-15879 *	#	US-PATENT-CLASS-350-354	c 32	N86-20647 *	#	US-PATENT-CLASS-356-123	c 74	N76-19935 *	#
US-PATENT-CLASS-350-202	c 23	N73-20741 *	#	US-PATENT-CLASS-350-358	c 36	N82-29589 *	#	US-PATENT-CLASS-356-124	c 74	N76-19935 *	#
US-PATENT-CLASS-350-202	c 74	N77-28932 *	#	US-PATENT-CLASS-350-359	c 36	N80-16321 *	#	US-PATENT-CLASS-356-124	c 74	N79-11865 *	#
US-PATENT-CLASS-350-203	c 14	N72-25409 *	#	US-PATENT-CLASS-350-359	c 14	N72-22441 *	#	US-PATENT-CLASS-356-129	c 74	N79-20856 *	#
US-PATENT-CLASS-350-204	c 14	N73-30393 *	#	US-PATENT-CLASS-350-36	c 14	N72-2244					

US-PATENT-CLASS-356-150	c 15	N71-28740 *	US-PATENT-CLASS-356-32	c 32	N73-20740 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *
US-PATENT-CLASS-356-150	c 74	N80-21138 *	US-PATENT-CLASS-356-32	c 39	N81-25400 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *
US-PATENT-CLASS-356-152	c 15	N71-28740 *	US-PATENT-CLASS-356-330	c 74	N85-23396 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *
US-PATENT-CLASS-356-152	c 16	N72-13437 *	US-PATENT-CLASS-356-331	c 74	N85-23396 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *
US-PATENT-CLASS-356-152	c 14	N72-20379 *	US-PATENT-CLASS-356-334	c 74	N80-21140 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *
US-PATENT-CLASS-356-152	c 14	N72-27409 *	US-PATENT-CLASS-356-345	c 74	N81-17888 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *
US-PATENT-CLASS-356-152	c 14	N73-25462 *	US-PATENT-CLASS-356-345	c 74	N81-29963 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *
US-PATENT-CLASS-356-152	c 36	N74-15145 *	US-PATENT-CLASS-356-345	c 36	N84-14509 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *
US-PATENT-CLASS-356-152	c 36	N74-21091 *	US-PATENT-CLASS-356-345	c 74	N86-21348 *	US-PATENT-CLASS-357-30	c 44	N82-29709 *
US-PATENT-CLASS-356-152	c 74	N74-21304 *	US-PATENT-CLASS-356-346	c 35	N80-20563 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *
US-PATENT-CLASS-356-152	c 74	N77-22951 *	US-PATENT-CLASS-356-346	c 74	N81-29963 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *
US-PATENT-CLASS-356-152	c 74	N80-21138 *	US-PATENT-CLASS-356-347	c 35	N84-22929 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *
US-PATENT-CLASS-356-152	c 37	N81-27519 *	US-PATENT-CLASS-356-349	c 36	N82-16396 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *
US-PATENT-CLASS-356-153	c 15	N71-28740 *	US-PATENT-CLASS-356-350	c 35	N81-33448 *	US-PATENT-CLASS-357-30	c 33	N85-21492 *
US-PATENT-CLASS-356-153	c 23	N71-29125 *	US-PATENT-CLASS-356-351	c 35	N81-33448 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *
US-PATENT-CLASS-356-153	c 16	N73-33397 *	US-PATENT-CLASS-356-351	c 35	N85-30282 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *
US-PATENT-CLASS-356-153	c 18	N76-14186 *	US-PATENT-CLASS-356-352	c 74	N81-17888 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *
US-PATENT-CLASS-356-154	c 15	N71-26673 *	US-PATENT-CLASS-356-353	c 74	N83-32577 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *
US-PATENT-CLASS-356-159	c 36	N78-14380 *	US-PATENT-CLASS-356-356	c 36	N81-24422 *	US-PATENT-CLASS-357-32	c 35	N84-33765 *
US-PATENT-CLASS-356-160	c 36	N78-14380 *	US-PATENT-CLASS-356-357	c 74	N83-21949 *	US-PATENT-CLASS-357-40	c 36	N85-30305 *
US-PATENT-CLASS-356-161	c 26	N73-26751 *	US-PATENT-CLASS-356-358	c 74	N81-17888 *	US-PATENT-CLASS-357-41	c 33	N79-12321 *
US-PATENT-CLASS-356-162	c 66	N76-19888 *	US-PATENT-CLASS-356-358	c 36	N81-24422 *	US-PATENT-CLASS-357-42	c 76	N75-25730 *
US-PATENT-CLASS-356-165	c 38	N78-17396 *	US-PATENT-CLASS-356-358	c 35	N85-30282 *	US-PATENT-CLASS-357-45	c 33	N79-12321 *
US-PATENT-CLASS-356-166	c 14	N71-23175 *	US-PATENT-CLASS-356-363	c 74	N83-32577 *	US-PATENT-CLASS-357-45	c 44	N79-26475 *
US-PATENT-CLASS-356-167	c 14	N72-11364 *	US-PATENT-CLASS-356-369	c 35	N80-28687 *	US-PATENT-CLASS-357-46	c 36	N85-30305 *
US-PATENT-CLASS-356-167	c 66	N76-19888 *	US-PATENT-CLASS-356-36	c 23	N71-16365 *	US-PATENT-CLASS-357-4	c 33	N78-13320 *
US-PATENT-CLASS-356-167	c 74	N78-27904 *	US-PATENT-CLASS-356-37	c 45	N76-21742 *	US-PATENT-CLASS-357-4	c 76	N85-30922 *
US-PATENT-CLASS-356-169	c 60	N78-10709 *	US-PATENT-CLASS-356-386	c 36	N82-16396 *	US-PATENT-CLASS-357-50	c 76	N85-30922 *
US-PATENT-CLASS-356-171	c 74	N77-22950 *	US-PATENT-CLASS-356-394	c 33	N83-18996 *	US-PATENT-CLASS-357-52	c 76	N75-25730 *
US-PATENT-CLASS-356-172	c 16	N73-33397 *	US-PATENT-CLASS-356-4.5	c 74	N86-21348 *	US-PATENT-CLASS-357-52	c 44	N80-29835 *
US-PATENT-CLASS-356-172	c 36	N74-21091 *	US-PATENT-CLASS-356-404	c 35	N79-28527 *	US-PATENT-CLASS-357-54	c 76	N75-25730 *
US-PATENT-CLASS-356-172	c 74	N77-22951 *	US-PATENT-CLASS-356-406	c 52	N81-27783 *	US-PATENT-CLASS-357-55	c 33	N79-12321 *
US-PATENT-CLASS-356-17	c 14	N72-21409 *	US-PATENT-CLASS-356-407	c 43	N79-17288 *	US-PATENT-CLASS-357-55	c 33	N81-26360 *
US-PATENT-CLASS-356-180	c 35	N74-27860 *	US-PATENT-CLASS-356-407	c 52	N81-27783 *	US-PATENT-CLASS-357-58	c 33	N86-19516 *
US-PATENT-CLASS-356-186	c 35	N75-19613 *	US-PATENT-CLASS-356-416	c 43	N79-17288 *	US-PATENT-CLASS-357-59	c 44	N76-28635 *
US-PATENT-CLASS-356-188	c 35	N84-33766 *	US-PATENT-CLASS-356-416	c 52	N81-27783 *	US-PATENT-CLASS-357-59	c 44	N78-24609 *
US-PATENT-CLASS-356-189	c 35	N75-19613 *	US-PATENT-CLASS-356-432	c 74	N81-17887 *	US-PATENT-CLASS-357-59	c 44	N81-19558 *
US-PATENT-CLASS-356-189	c 35	N84-33766 *	US-PATENT-CLASS-356-432	c 25	N81-25159 *	US-PATENT-CLASS-357-59	c 33	N86-19516 *
US-PATENT-CLASS-356-18	c 14	N72-21409 *	US-PATENT-CLASS-356-434	c 35	N84-34705 *	US-PATENT-CLASS-357-5	c 33	N75-31332 *
US-PATENT-CLASS-356-197	c 37	N74-18123 *	US-PATENT-CLASS-356-437	c 25	N81-14015 *	US-PATENT-CLASS-357-5	c 33	N78-13320 *
US-PATENT-CLASS-356-199	c 36	N78-14380 *	US-PATENT-CLASS-356-43	c 74	N74-15095 *	US-PATENT-CLASS-357-60	c 33	N81-26360 *
US-PATENT-CLASS-356-1	c 36	N83-34304 *	US-PATENT-CLASS-356-43	c 75	N74-30156 *	US-PATENT-CLASS-357-63	c 33	N76-31409 *
US-PATENT-CLASS-356-201	c 75	N74-30156 *	US-PATENT-CLASS-356-43	c 36	N85-21639 *	US-PATENT-CLASS-357-63	c 44	N81-19558 *
US-PATENT-CLASS-356-201	c 35	N77-14411 *	US-PATENT-CLASS-356-45	c 36	N85-21639 *	US-PATENT-CLASS-357-63	c 44	N82-26777 *
US-PATENT-CLASS-356-202	c 26	N73-31409 *	US-PATENT-CLASS-356-4	c 14	N72-17326 *	US-PATENT-CLASS-357-65	c 44	N78-25527 *
US-PATENT-CLASS-356-203	c 14	N71-26788 *	US-PATENT-CLASS-356-4	c 07	N73-26119 *	US-PATENT-CLASS-357-65	c 44	N79-11467 *
US-PATENT-CLASS-356-204	c 35	N77-14411 *	US-PATENT-CLASS-356-4	c 36	N74-15145 *	US-PATENT-CLASS-357-65	c 44	N79-31752 *
US-PATENT-CLASS-356-204	c 74	N78-17867 *	US-PATENT-CLASS-356-4	c 35	N75-15014 *	US-PATENT-CLASS-357-67	c 44	N78-25527 *
US-PATENT-CLASS-356-207	c 45	N76-17656 *	US-PATENT-CLASS-356-4	c 36	N83-34304 *	US-PATENT-CLASS-357-67	c 44	N79-11467 *
US-PATENT-CLASS-356-208	c 74	N78-33913 *	US-PATENT-CLASS-356-51	c 06	N72-31141 *	US-PATENT-CLASS-357-67	c 44	N79-31752 *
US-PATENT-CLASS-356-209	c 23	N71-16341 *	US-PATENT-CLASS-356-51	c 35	N75-30502 *	US-PATENT-CLASS-357-73	c 33	N78-13320 *
US-PATENT-CLASS-356-209	c 14	N71-28993 *	US-PATENT-CLASS-356-51	c 35	N83-21311 *	US-PATENT-CLASS-357-74	c 37	N79-28549 *
US-PATENT-CLASS-356-209	c 14	N72-17323 *	US-PATENT-CLASS-356-51	c 35	N84-34705 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *
US-PATENT-CLASS-356-209	c 35	N76-31490 *	US-PATENT-CLASS-356-5	c 07	N73-26119 *	US-PATENT-CLASS-357-7	c 33	N75-31331 *
US-PATENT-CLASS-356-210	c 74	N79-11865 *	US-PATENT-CLASS-356-5	c 36	N74-15145 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *
US-PATENT-CLASS-356-212	c 35	N77-31465 *	US-PATENT-CLASS-356-5	c 36	N75-15028 *	US-PATENT-CLASS-357-82	c 37	N79-28549 *
US-PATENT-CLASS-356-213	c 39	N81-25400 *	US-PATENT-CLASS-356-5	c 32	N82-23376 *	US-PATENT-CLASS-357-83	c 37	N79-28549 *
US-PATENT-CLASS-356-216	c 74	N74-15095 *	US-PATENT-CLASS-356-5	c 74	N85-34629 *	US-PATENT-CLASS-357-91	c 76	N75-25730 *
US-PATENT-CLASS-356-216	c 35	N80-18359 *	US-PATENT-CLASS-356-71	c 66	N76-19888 *	US-PATENT-CLASS-357-91	c 33	N78-27326 *
US-PATENT-CLASS-356-216	c 39	N81-25400 *	US-PATENT-CLASS-356-72	c 14	N71-23268 *	US-PATENT-CLASS-357-91	c 44	N80-29835 *
US-PATENT-CLASS-356-216	c 35	N84-22931 *	US-PATENT-CLASS-356-72	c 33	N73-27796 *	US-PATENT-CLASS-357-91	c 33	N81-26360 *
US-PATENT-CLASS-356-222	c 03	N72-20033 *	US-PATENT-CLASS-356-72	c 38	N78-32447 *	US-PATENT-CLASS-358-101	c 37	N86-21850 *
US-PATENT-CLASS-356-222	c 47	N83-32322 *	US-PATENT-CLASS-356-72	c 74	N80-33210 *	US-PATENT-CLASS-358-104	c 09	N78-18083 *
US-PATENT-CLASS-356-234	c 39	N81-25400 *	US-PATENT-CLASS-356-73	c 75	N74-30156 *	US-PATENT-CLASS-358-104	c 74	N79-13855 *
US-PATENT-CLASS-356-234	c 35	N84-22931 *	US-PATENT-CLASS-356-73	c 38	N78-32447 *	US-PATENT-CLASS-358-104	c 36	N83-34304 *
US-PATENT-CLASS-356-236	c 74	N77-21941 *	US-PATENT-CLASS-356-73	c 35	N84-33766 *	US-PATENT-CLASS-358-105	c 39	N83-20280 *
US-PATENT-CLASS-356-237	c 74	N77-10899 *	US-PATENT-CLASS-356-74	c 30	N71-15990 *	US-PATENT-CLASS-358-105	c 74	N86-21348 *
US-PATENT-CLASS-356-237	c 38	N78-17395 *	US-PATENT-CLASS-356-74	c 35	N84-33766 *	US-PATENT-CLASS-358-106	c 39	N78-16387 *
US-PATENT-CLASS-356-237	c 38	N78-17396 *	US-PATENT-CLASS-356-76	c 23	N71-26206 *	US-PATENT-CLASS-358-107	c 35	N79-18296 *
US-PATENT-CLASS-356-237	c 35	N79-28527 *	US-PATENT-CLASS-356-76	c 14	N71-29041 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *
US-PATENT-CLASS-356-239	c 74	N77-10899 *	US-PATENT-CLASS-356-83	c 35	N75-19613 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *
US-PATENT-CLASS-356-241	c 14	N72-32452 *	US-PATENT-CLASS-356-85	c 37	N74-18123 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *
US-PATENT-CLASS-356-243	c 36	N80-16321 *	US-PATENT-CLASS-356-85	c 75	N74-30156 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *
US-PATENT-CLASS-356-244	c 14	N72-17323 *	US-PATENT-CLASS-356-87	c 75	N74-30156 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *
US-PATENT-CLASS-356-244	c 35	N76-31490 *	US-PATENT-CLASS-356-96	c 35	N75-19613 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *
US-PATENT-CLASS-356-244	c 35	N80-28687 *	US-PATENT-CLASS-356-97	c 35	N77-14411 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *
US-PATENT-CLASS-356-246	c 35	N74-27860 *	US-PATENT-CLASS-357-12	c 33	N85-21492 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *
US-PATENT-CLASS-356-246	c 74	N78-17867 *	US-PATENT-CLASS-357-15	c 44	N78-13526 *	US-PATENT-CLASS-358-133	c 32	N77-24328 *
US-PATENT-CLASS-356-248	c 14	N72-22444 *	US-PATENT-CLASS-357-15	c 44	N79-11467 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *
US-PATENT-CLASS-356-28.5	c 32	N80-24510 *	US-PATENT-CLASS-357-15	c 44	N81-29525 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *
US-PATENT-CLASS-356-28.5	c 36	N81-24422 *	US-PATENT-CLASS-357-16	c 76	N86-20150 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *
US-PATENT-CLASS-356-28.5	c 36	N82-32712 *	US-PATENT-CLASS-357-16	c 44	N78-13526 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *
US-PATENT-CLASS-356-28	c 21	N71-19212 *	US-PATENT-CLASS-357-16	c 44	N79-11467 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *
US-PATENT-CLASS-356-28	c 16	N71-24828 *	US-PATENT-CLASS-357-17	c 36	N85-30305 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *
US-PATENT-CLASS-356-28	c 72	N74-19310 *	US-PATENT-CLASS-357-22	c 33	N79-11314 *	US-PATENT-CLASS-358-213	c 33	N81-33403 *
US-PATENT-CLASS-356-28	c 36	N75-15028 *	US-PATENT-CLASS-357-22	c 33	N79-12321 *	US-PATENT-CLASS-358-213	c 33	N82-24416 *
US-PATENT-CLASS-356-28	c 35	N75-16783 *	US-PATENT-CLASS-357-23.6	c 33	N86-19516 *	US-PATENT-CLASS-358-213	c 74	N84-23247 *
US-PATENT-CLASS-356-28	c 36	N76-14447 *	US-PATENT-CLASS-357-23	c 76	N75-23730 *	US-PATENT-CLASS-358-217	c 32	N85-21427 *
US-PATENT-CLASS-356-28	c 36	N77-25501 *	US-PATENT-CLASS-357-23	c 33	N79-12321 *	US-PATENT-CLASS-358-219	c 32	N85-21427 *
US-PATENT-CLASS-356-28	c 74	N78-17866 *	US-PATENT-CLASS-357-23	c 33	N81-26360 *	US-PATENT-CLASS-358-225	c 74	N78-17665 *
US-PATENT-CLASS-356-28	c 35	N79-18296 *	US-PATENT-CLASS-357-24	c 33	N75-31331 *	US-PATENT-CLASS-358-36	c 32	N75-21485 *
US-PATENT-CLASS-356-28	c 36	N80-16321 *	US-PATENT-CLASS-357-29	c 76	N75-25730 *	US-PATENT-CLASS-358-41	c 74	N78-17865 *
US-PATENT-CLASS-356-300	c 43	N79-17288 *	US-PATENT-CLASS-357-29	c 35	N84-33765 *	US-PATENT-CLASS-358-44	c 74	N77-18893 *
US-PATENT-CLASS-356-323	c 74	N85-23396 *	US-PATENT-CLASS-357-30	c 44	N76-28635 *	US-PATENT-CLASS-358-55	c 74	N78-17865 *
US-PATENT-CLASS-356-328	c 35	N80-26635 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *	US-PATENT-CLASS-358-81	c 32	N79-20297 *
US-PATENT-CLASS-356-32	c 14	N72-11364 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *	US-PATENT-CLASS-358-88	c 74	N86-21348 *

US-PATENT-CLASS-358-96	c 52	N79-10724 *	#	US-PATENT-CLASS-364-560	c 43	N79-26439 *	#	US-PATENT-CLASS-375-104	c 35	N81-19427 *	#
US-PATENT-CLASS-36-119	c 54	N78-17675 *	#	US-PATENT-CLASS-364-566	c 18	N81-29152 *	#	US-PATENT-CLASS-375-106	c 60	N82-16747 *	#
US-PATENT-CLASS-36-92	c 54	N78-17675 *	#	US-PATENT-CLASS-364-571	c 34	N81-26402 *	#	US-PATENT-CLASS-375-106	c 32	N82-31583 *	#
US-PATENT-CLASS-360-101	c 35	N76-16391 *	#	US-PATENT-CLASS-364-571	c 35	N84-14491 *	#	US-PATENT-CLASS-375-107	c 32	N81-14186 *	#
US-PATENT-CLASS-360-10	c 35	N76-16391 *	#	US-PATENT-CLASS-364-571	c 33	N85-34333 *	#	US-PATENT-CLASS-375-114	c 60	N82-16747 *	#
US-PATENT-CLASS-360-25	c 35	N77-17426 *	#	US-PATENT-CLASS-364-578	c 33	N85-34333 *	#	US-PATENT-CLASS-375-115	c 32	N81-15179 *	#
US-PATENT-CLASS-360-26	c 33	N76-18353 *	#	US-PATENT-CLASS-364-604	c 32	N79-14267 *	#	US-PATENT-CLASS-375-116	c 60	N82-16747 *	#
US-PATENT-CLASS-360-31	c 35	N77-17426 *	#	US-PATENT-CLASS-364-713	c 32	N79-20297 *	#	US-PATENT-CLASS-375-120	c 32	N84-27952 *	#
US-PATENT-CLASS-360-35	c 35	N76-16391 *	#	US-PATENT-CLASS-364-717	c 32	N82-31583 *	#	US-PATENT-CLASS-375-1	c 32	N81-15179 *	#
US-PATENT-CLASS-360-51	c 33	N76-18353 *	#	US-PATENT-CLASS-364-723	c 60	N85-33701 *	#	US-PATENT-CLASS-375-1	c 35	N81-19427 *	#
US-PATENT-CLASS-360-99	c 35	N76-16391 *	#	US-PATENT-CLASS-364-728	c 32	N79-14267 *	#	US-PATENT-CLASS-375-1	c 33	N81-33405 *	#
US-PATENT-CLASS-361-100	c 33	N83-34190 *	#	US-PATENT-CLASS-364-728	c 60	N86-21154 *	#	US-PATENT-CLASS-375-34	c 35	N81-19427 *	#
US-PATENT-CLASS-361-141	c 33	N82-11357 *	#	US-PATENT-CLASS-364-822	c 32	N83-18975 *	#	US-PATENT-CLASS-375-54	c 33	N81-15192 *	#
US-PATENT-CLASS-361-170	c 33	N79-28415 *	#	US-PATENT-CLASS-364-822	c 74	N86-21348 *	#	US-PATENT-CLASS-375-58	c 32	N81-15179 *	#
US-PATENT-CLASS-361-226	c 28	N82-18401 *	#	US-PATENT-CLASS-364-825	c 33	N82-24417 *	#	US-PATENT-CLASS-375-67	c 33	N81-15192 *	#
US-PATENT-CLASS-361-230	c 28	N82-18401 *	#	US-PATENT-CLASS-364-853	c 60	N85-33701 *	#	US-PATENT-CLASS-375-77	c 32	N84-27952 *	#
US-PATENT-CLASS-361-283	c 33	N82-26572 *	#	US-PATENT-CLASS-364-861	c 32	N83-18975 *	#	US-PATENT-CLASS-375-81	c 32	N84-27952 *	#
US-PATENT-CLASS-361-334	c 35	N81-26431 *	#	US-PATENT-CLASS-364-900	c 52	N79-12694 *	#	US-PATENT-CLASS-375-99	c 35	N81-19427 *	#
US-PATENT-CLASS-361-395	c 32	N78-24391 *	#	US-PATENT-CLASS-364-900	c 60	N79-20751 *	#	US-PATENT-CLASS-376-159	c 25	N85-21279 *	#
US-PATENT-CLASS-361-56	c 33	N81-27397 *	#	US-PATENT-CLASS-364-900	c 60	N81-27814 *	#	US-PATENT-CLASS-378-104	c 33	N85-29147 *	#
US-PATENT-CLASS-361-91	c 33	N81-27397 *	#	US-PATENT-CLASS-364-900	c 60	N83-32342 *	#	US-PATENT-CLASS-378-112	c 33	N85-29147 *	#
US-PATENT-CLASS-362-11	c 74	N81-17886 *	#	US-PATENT-CLASS-364-900	c 60	N84-28491 *	#	US-PATENT-CLASS-378-2	c 34	N83-19015 *	#
US-PATENT-CLASS-362-241	c 74	N81-17886 *	#	US-PATENT-CLASS-364-900	c 60	N84-28492 *	#	US-PATENT-CLASS-378-2	c 74	N84-11920 *	#
US-PATENT-CLASS-362-269	c 17	N78-17140 *	#	US-PATENT-CLASS-365-120	c 33	N81-29342 *	#	US-PATENT-CLASS-378-43	c 34	N83-19015 *	#
US-PATENT-CLASS-363-100	c 33	N85-29147 *	#	US-PATENT-CLASS-366-106	c 71	N84-28568 *	#	US-PATENT-CLASS-378-43	c 74	N86-20124 *	#
US-PATENT-CLASS-363-101	c 33	N78-32341 *	#	US-PATENT-CLASS-366-114	c 71	N83-35781 *	#	US-PATENT-CLASS-378-58	c 74	N86-20126 *	#
US-PATENT-CLASS-363-101	c 33	N81-19392 *	#	US-PATENT-CLASS-367-100	c 32	N82-18443 *	#	US-PATENT-CLASS-378-59	c 74	N86-20126 *	#
US-PATENT-CLASS-363-132	c 33	N82-18494 *	#	US-PATENT-CLASS-367-102	c 32	N82-18443 *	#	US-PATENT-CLASS-378-85	c 74	N86-20124 *	#
US-PATENT-CLASS-363-134	c 33	N79-24257 *	#	US-PATENT-CLASS-367-181	c 33	N82-26572 *	#	US-PATENT-CLASS-382-42	c 74	N86-21348 *	#
US-PATENT-CLASS-363-147	c 44	N81-12542 *	#	US-PATENT-CLASS-367-189	c 35	N84-22933 *	#	US-PATENT-CLASS-384-101	c 37	N85-33490 *	#
US-PATENT-CLASS-363-16	c 33	N78-32341 *	#	US-PATENT-CLASS-367-26	c 39	N80-10507 *	#	US-PATENT-CLASS-384-103	c 37	N86-19606 *	#
US-PATENT-CLASS-363-17	c 33	N82-18494 *	#	US-PATENT-CLASS-367-27	c 31	N80-32584 *	#	US-PATENT-CLASS-384-106	c 37	N86-19606 *	#
US-PATENT-CLASS-363-19	c 33	N85-29147 *	#	US-PATENT-CLASS-367-36	c 31	N80-32584 *	#	US-PATENT-CLASS-384-124	c 27	N83-34043 *	#
US-PATENT-CLASS-363-21	c 33	N81-19392 *	#	US-PATENT-CLASS-367-57	c 31	N80-32584 *	#	US-PATENT-CLASS-384-99	c 37	N85-33490 *	#
US-PATENT-CLASS-363-21	c 33	N81-19393 *	#	US-PATENT-CLASS-367-88	c 32	N82-18443 *	#	US-PATENT-CLASS-39-25.35	c 33	N86-20671 *	#
US-PATENT-CLASS-363-22	c 33	N84-33663 *	#	US-PATENT-CLASS-367-88	c 32	N83-31918 *	#	US-PATENT-CLASS-4-10	c 54	N74-20725 *	#
US-PATENT-CLASS-363-23	c 33	N85-29147 *	#	US-PATENT-CLASS-367-88	c 43	N86-19711 *	#	US-PATENT-CLASS-4-110	c 05	N72-22093 *	#
US-PATENT-CLASS-363-24	c 33	N81-33404 *	#	US-PATENT-CLASS-367-95	c 32	N82-23376 *	#	US-PATENT-CLASS-4-120	c 54	N74-20725 *	#
US-PATENT-CLASS-363-25	c 33	N84-16453 *	#	US-PATENT-CLASS-368-184	c 33	N83-36357 *	#	US-PATENT-CLASS-4-144.3	c 52	N81-24711 *	#
US-PATENT-CLASS-363-27	c 44	N81-12542 *	#	US-PATENT-CLASS-368-200	c 33	N83-36357 *	#	US-PATENT-CLASS-4-144.3	c 52	N81-28740 *	#
US-PATENT-CLASS-363-36	c 33	N81-19393 *	#	US-PATENT-CLASS-368-201	c 33	N83-36357 *	#	US-PATENT-CLASS-4-498	c 44	N84-34792 *	#
US-PATENT-CLASS-363-40	c 33	N81-19393 *	#	US-PATENT-CLASS-368-47	c 33	N81-14221 *	#	US-PATENT-CLASS-4-99	c 05	N72-22093 *	#
US-PATENT-CLASS-363-47	c 33	N81-19393 *	#	US-PATENT-CLASS-37N	c 27	N81-15104 *	#	US-PATENT-CLASS-40-28	c 12	N71-18603 *	#
US-PATENT-CLASS-363-49	c 33	N84-33663 *	#	US-PATENT-CLASS-370-100	c 60	N82-16747 *	#	US-PATENT-CLASS-403-102	c 37	N85-30336 *	#
US-PATENT-CLASS-363-53	c 33	N77-30365 *	#	US-PATENT-CLASS-370-58	c 60	N81-27814 *	#	US-PATENT-CLASS-403-105	c 37	N79-14382 *	#
US-PATENT-CLASS-363-54	c 33	N83-34190 *	#	US-PATENT-CLASS-370-67	c 33	N82-29538 *	#	US-PATENT-CLASS-403-113	c 37	N86-19605 *	#
US-PATENT-CLASS-363-56	c 33	N79-24254 *	#	US-PATENT-CLASS-370-85	c 33	N81-14221 *	#	US-PATENT-CLASS-403-120	c 37	N86-19605 *	#
US-PATENT-CLASS-363-56	c 33	N81-14220 *	#	US-PATENT-CLASS-371-20	c 33	N81-26359 *	#	US-PATENT-CLASS-403-143	c 18	N85-29991 *	#
US-PATENT-CLASS-363-56	c 33	N81-33404 *	#	US-PATENT-CLASS-371-25	c 33	N81-26359 *	#	US-PATENT-CLASS-403-15	c 37	N85-30334 *	#
US-PATENT-CLASS-363-57	c 33	N78-10377 *	#	US-PATENT-CLASS-371-68	c 60	N82-29013 *	#	US-PATENT-CLASS-403-16	c 37	N85-30334 *	#
US-PATENT-CLASS-363-60	c 33	N78-32341 *	#	US-PATENT-CLASS-371-6	c 32	N83-13323 *	#	US-PATENT-CLASS-403-171	c 31	N81-25258 *	#
US-PATENT-CLASS-363-61	c 44	N81-12542 *	#	US-PATENT-CLASS-372-100	c 36	N84-14509 *	#	US-PATENT-CLASS-403-171	c 31	N86-19479 *	#
US-PATENT-CLASS-363-61	c 33	N82-18494 *	#	US-PATENT-CLASS-372-103	c 36	N84-28065 *	#	US-PATENT-CLASS-403-179	c 27	N76-14264 *	#
US-PATENT-CLASS-363-61	c 33	N85-29147 *	#	US-PATENT-CLASS-372-108	c 36	N84-14509 *	#	US-PATENT-CLASS-403-217	c 37	N82-32732 *	#
US-PATENT-CLASS-363-65	c 33	N84-16453 *	#	US-PATENT-CLASS-372-20	c 36	N84-22943 *	#	US-PATENT-CLASS-403-273	c 37	N77-23482 *	#
US-PATENT-CLASS-363-67	c 33	N84-16453 *	#	US-PATENT-CLASS-372-25	c 33	N83-34189 *	#	US-PATENT-CLASS-403-282	c 26	N83-10170 *	#
US-PATENT-CLASS-363-70	c 33	N77-30365 *	#	US-PATENT-CLASS-372-28	c 36	N84-22943 *	#	US-PATENT-CLASS-403-28	c 27	N76-14264 *	#
US-PATENT-CLASS-363-71	c 33	N79-24254 *	#	US-PATENT-CLASS-372-32	c 36	N84-22943 *	#	US-PATENT-CLASS-403-28	c 37	N85-29285 *	#
US-PATENT-CLASS-363-71	c 33	N79-24257 *	#	US-PATENT-CLASS-372-32	c 33	N85-34333 *	#	US-PATENT-CLASS-403-315	c 37	N82-24494 *	#
US-PATENT-CLASS-363-71	c 33	N81-14220 *	#	US-PATENT-CLASS-372-38	c 36	N85-30305 *	#	US-PATENT-CLASS-403-317	c 37	N82-32732 *	#
US-PATENT-CLASS-363-71	c 33	N84-16453 *	#	US-PATENT-CLASS-372-46	c 36	N85-30305 *	#	US-PATENT-CLASS-403-317	c 37	N85-21649 *	#
US-PATENT-CLASS-363-71	c 33	N85-29147 *	#	US-PATENT-CLASS-372-4	c 36	N84-28065 *	#	US-PATENT-CLASS-403-322	c 18	N84-22605 *	#
US-PATENT-CLASS-363-78	c 33	N81-14220 *	#	US-PATENT-CLASS-372-50	c 36	N85-30305 *	#	US-PATENT-CLASS-403-322	c 37	N85-30334 *	#
US-PATENT-CLASS-363-89	c 33	N83-10345 *	#	US-PATENT-CLASS-372-55	c 36	N84-16542 *	#	US-PATENT-CLASS-403-322	c 37	N85-30336 *	#
US-PATENT-CLASS-363-89	c 33	N78-10377 *	#	US-PATENT-CLASS-372-56	c 36	N82-28616 *	#	US-PATENT-CLASS-403-328	c 18	N86-20469 *	#
US-PATENT-CLASS-363-95	c 33	N79-24257 *	#	US-PATENT-CLASS-372-56	c 36	N83-10417 *	#	US-PATENT-CLASS-403-331	c 37	N82-32732 *	#
US-PATENT-CLASS-363-97	c 33	N79-24254 *	#	US-PATENT-CLASS-372-58	c 36	N82-28616 *	#	US-PATENT-CLASS-403-340	c 37	N82-32732 *	#
US-PATENT-CLASS-364-106	c 07	N81-19115 *	#	US-PATENT-CLASS-372-59	c 36	N83-10417 *	#	US-PATENT-CLASS-403-348	c 37	N85-30336 *	#
US-PATENT-CLASS-364-120	c 52	N79-12694 *	#	US-PATENT-CLASS-372-60	c 36	N83-10417 *	#	US-PATENT-CLASS-403-408	c 37	N85-29285 *	#
US-PATENT-CLASS-364-200	c 62	N81-24779 *	#	US-PATENT-CLASS-372-71	c 36	N84-28065 *	#	US-PATENT-CLASS-403-56	c 18	N85-29991 *	#
US-PATENT-CLASS-364-200	c 60	N81-27814 *	#	US-PATENT-CLASS-372-74	c 35	N84-12444 *	#	US-PATENT-CLASS-403-64	c 31	N86-19479 *	#
US-PATENT-CLASS-364-200	c 60	N83-25378 *	#	US-PATENT-CLASS-372-79	c 36	N84-16542 *	#	US-PATENT-CLASS-403-76	c 18	N85-29991 *	#
US-PATENT-CLASS-364-200	c 60	N83-32342 *	#	US-PATENT-CLASS-372-82	c 36	N82-28616 *	#	US-PATENT-CLASS-403-90	c 18	N85-29991 *	#
US-PATENT-CLASS-364-200	c 32	N85-21428 *	#	US-PATENT-CLASS-372-93	c 36	N84-14509 *	#	US-PATENT-CLASS-405-229	c 44	N79-24432 *	#
US-PATENT-CLASS-364-200	c 60	N85-21992 *	#	US-PATENT-CLASS-372-93	c 36	N84-28065 *	#	US-PATENT-CLASS-405-263	c 44	N79-24432 *	#
US-PATENT-CLASS-364-300	c 52	N79-12694 *	#	US-PATENT-CLASS-372-94	c 36	N84-14509 *	#	US-PATENT-CLASS-406-155	c 37	N84-16561 *	#
US-PATENT-CLASS-364-400	c 33	N85-29142 *	#	US-PATENT-CLASS-372-95	c 36	N84-28065 *	#	US-PATENT-CLASS-407-117	c 37	N81-14319 *	#
US-PATENT-CLASS-364-413	c 39	N83-20280 *	#	US-PATENT-CLASS-372-98	c 36	N84-14509 *	#	US-PATENT-CLASS-407-85	c 37	N81-14319 *	#
US-PATENT-CLASS-364-415	c 52	N79-12694 *	#	US-PATENT-CLASS-374-115	c 35	N86-19580 *	#	US-PATENT-CLASS-408-1R	c 37	N81-14319 *	#
US-PATENT-CLASS-364-415	c 35	N84-12445 *	#	US-PATENT-CLASS-374-117	c 52	N85-30618 *	#	US-PATENT-CLASS-408-1R	c 31	N83-27058 *	#
US-PATENT-CLASS-364-417	c 52	N79-10724 *	#	US-PATENT-CLASS-374-120	c 35	N86-19580 *	#	US-PATENT-CLASS-408-111	c 37	N74-25968 *	#
US-PATENT-CLASS-364-431	c 07	N81-19115 *	#	US-PATENT-CLASS-374-122	c 06	N83-10040 *	#	US-PATENT-CLASS-408-112	c 37	N75-25186 *	#
US-PATENT-CLASS-364-434	c 08	N79-23097 *	#	US-PATENT-CLASS-374-122	c 43	N85-21723 *	#	US-PATENT-CLASS-408-137	c 15	N71-33518 *	#
US-PATENT-CLASS-364-434	c 08	N81-24106 *	#	US-PATENT-CLASS-374-123	c 06	N83-10040 *	#	US-PATENT-CLASS-408-186	c 37	N75-25186 *	#
US-PATENT-CLASS-364-452	c 04	N84-27713 *	#	US-PATENT-CLASS-374-137	c 36	N85-21639 *	#	US-PATENT-CLASS-408-193	c 37	N75-25186 *	#
US-PATENT-CLASS-364-453	c 18	N81-29152 *	#	US-PATENT-CLASS-374-160	c 52	N85-30618 *	#	US-PATENT-CLASS-408-195	c 37	N75-25186 *	#
US-PATENT-CLASS-364-453	c 33	N85-29142 *	#	US-PATENT-CLASS-374-162R	c 74	N82-30071 *	#	US-PATENT-CLASS-408-61	c 31	N83-27058 *	#
US-PATENT-CLASS-364-458	c 32	N79-14267 *	#	US-PATENT-CLASS-374-163	c 35	N86-19580 *	#	US-PATENT-CLASS-408-80	c 37	N74-25968 *	#
US-PATENT-CLASS-364-510											

US-PATENT-CLASS-411-368	c 37	N85-29285 *	#	US-PATENT-CLASS-416-165	c 07	N77-14025 *	#	US-PATENT-CLASS-422-246	c 76	N82-30105 *	#
US-PATENT-CLASS-411-378	c 37	N85-29285 *	#	US-PATENT-CLASS-416-167	c 07	N77-14025 *	#	US-PATENT-CLASS-422-246	c 76	N84-35113 *	#
US-PATENT-CLASS-411-426	c 37	N85-29285 *	#	US-PATENT-CLASS-416-167	c 07	N79-14095 *	#	US-PATENT-CLASS-422-249	c 33	N81-19389 *	#
US-PATENT-CLASS-411-501	c 37	N85-29285 *	#	US-PATENT-CLASS-416-174	c 37	N85-34402 *	#	US-PATENT-CLASS-422-249	c 76	N84-35113 *	#
US-PATENT-CLASS-411-517	c 37	N83-19091 *	#	US-PATENT-CLASS-416-190	c 07	N77-32148 *	#	US-PATENT-CLASS-422-27	c 54	N81-24724 *	#
US-PATENT-CLASS-411-531	c 37	N85-29285 *	#	US-PATENT-CLASS-416-193A	c 07	N77-32148 *	#	US-PATENT-CLASS-422-30	c 54	N81-24724 *	#
US-PATENT-CLASS-414-1	c 37	N80-14398 *	#	US-PATENT-CLASS-416-1	c 34	N83-27144 *	#	US-PATENT-CLASS-422-34	c 54	N81-24724 *	#
US-PATENT-CLASS-414-1	c 37	N81-14320 *	#	US-PATENT-CLASS-416-200	c 02	N72-11018 *	#	US-PATENT-CLASS-422-3	c 54	N81-24724 *	#
US-PATENT-CLASS-414-217	c 37	N85-29286 *	#	US-PATENT-CLASS-416-214A	c 07	N78-33101 *	#	US-PATENT-CLASS-422-40	c 35	N82-11432 *	#
US-PATENT-CLASS-414-222	c 37	N82-32731 *	#	US-PATENT-CLASS-416-220R	c 07	N77-27116 *	#	US-PATENT-CLASS-422-41	c 52	N79-14749 *	#
US-PATENT-CLASS-414-226	c 37	N82-32731 *	#	US-PATENT-CLASS-416-220R	c 37	N78-10468 *	#	US-PATENT-CLASS-422-48	c 52	N79-14749 *	#
US-PATENT-CLASS-414-288	c 85	N85-34722 *	#	US-PATENT-CLASS-416-221	c 07	N77-27116 *	#	US-PATENT-CLASS-422-52	c 51	N80-16714 *	#
US-PATENT-CLASS-414-328	c 85	N85-34722 *	#	US-PATENT-CLASS-416-223R	c 02	N84-11136 *	#	US-PATENT-CLASS-422-52	c 51	N83-27569 *	#
US-PATENT-CLASS-414-373	c 85	N85-34722 *	#	US-PATENT-CLASS-416-223	c 07	N74-28226 *	#	US-PATENT-CLASS-422-68	c 51	N80-27067 *	#
US-PATENT-CLASS-414-4	c 37	N79-28551 *	#	US-PATENT-CLASS-416-224	c 07	N74-28226 *	#	US-PATENT-CLASS-422-78	c 25	N86-19413 *	#
US-PATENT-CLASS-414-4	c 54	N81-26718 *	#	US-PATENT-CLASS-416-224	c 24	N77-19170 *	#	US-PATENT-CLASS-422-80	c 25	N82-12166 *	#
US-PATENT-CLASS-414-4	c 37	N86-20789 *	#	US-PATENT-CLASS-416-224	c 07	N84-22560 *	#	US-PATENT-CLASS-422-86	c 35	N85-29213 *	#
US-PATENT-CLASS-414-6	c 54	N79-24652 *	#	US-PATENT-CLASS-416-228	c 05	N80-14107 *	#	US-PATENT-CLASS-422-88	c 35	N85-29213 *	#
US-PATENT-CLASS-414-718	c 37	N86-20789 *	#	US-PATENT-CLASS-416-230	c 24	N77-19170 *	#	US-PATENT-CLASS-422-9	c 45	N80-14579 *	#
US-PATENT-CLASS-414-730	c 37	N81-27519 *	#	US-PATENT-CLASS-416-233	c 07	N84-22560 *	#	US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *	#
US-PATENT-CLASS-414-730	c 37	N86-19603 *	#	US-PATENT-CLASS-416-237	c 07	N74-28226 *	#	US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *	#
US-PATENT-CLASS-414-735	c 54	N81-26718 *	#	US-PATENT-CLASS-416-238	c 05	N80-14107 *	#	US-PATENT-CLASS-423-131	c 28	N81-15119 *	#
US-PATENT-CLASS-414-739	c 37	N82-32731 *	#	US-PATENT-CLASS-416-23	c 05	N85-29947 *	#	US-PATENT-CLASS-423-149	c 26	N80-14229 *	#
US-PATENT-CLASS-414-744A	c 54	N81-26718 *	#	US-PATENT-CLASS-416-241A	c 07	N77-32148 *	#	US-PATENT-CLASS-423-1	c 28	N81-15119 *	#
US-PATENT-CLASS-414-753	c 37	N86-20789 *	#	US-PATENT-CLASS-416-241R	c 26	N84-33555 *	#	US-PATENT-CLASS-423-231	c 25	N74-12813 *	#
US-PATENT-CLASS-414-786	c 85	N85-34722 *	#	US-PATENT-CLASS-416-242	c 02	N84-11136 *	#	US-PATENT-CLASS-423-235	c 25	N82-28368 *	#
US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *	#	US-PATENT-CLASS-416-242	c 02	N84-28732 *	#	US-PATENT-CLASS-423-242	c 45	N79-12584 *	#
US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *	#	US-PATENT-CLASS-416-244A	c 07	N78-33101 *	#	US-PATENT-CLASS-423-249	c 25	N76-27383 *	#
US-PATENT-CLASS-415-101	c 44	N80-21828 *	#	US-PATENT-CLASS-416-248	c 37	N78-10468 *	#	US-PATENT-CLASS-423-293	c 26	N80-14229 *	#
US-PATENT-CLASS-415-115	c 07	N79-10057 *	#	US-PATENT-CLASS-416-25	c 05	N75-12930 *	#	US-PATENT-CLASS-423-303	c 44	N84-23019 *	#
US-PATENT-CLASS-415-115	c 34	N83-27144 *	#	US-PATENT-CLASS-416-2	c 44	N79-14527 *	#	US-PATENT-CLASS-423-33-5	c 25	N79-28253 *	#
US-PATENT-CLASS-415-115	c 07	N84-33410 *	#	US-PATENT-CLASS-416-500	c 05	N81-19087 *	#	US-PATENT-CLASS-423-345	c 76	N76-25049 *	#
US-PATENT-CLASS-415-115	c 34	N85-33433 *	#	US-PATENT-CLASS-416-500	c 05	N85-29947 *	#	US-PATENT-CLASS-423-345	c 76	N79-23798 *	#
US-PATENT-CLASS-415-116	c 07	N79-10057 *	#	US-PATENT-CLASS-416-51	c 05	N79-17847 *	#	US-PATENT-CLASS-423-346	c 76	N76-25049 *	#
US-PATENT-CLASS-415-118	c 35	N83-35338 *	#	US-PATENT-CLASS-416-61	c 35	N78-24515 *	#	US-PATENT-CLASS-423-348	c 26	N80-14229 *	#
US-PATENT-CLASS-415-143	c 34	N79-20335 *	#	US-PATENT-CLASS-416-61	c 37	N79-14382 *	#	US-PATENT-CLASS-423-350	c 37	N80-10494 *	#
US-PATENT-CLASS-415-145	c 07	N77-28118 *	#	US-PATENT-CLASS-416-61	c 05	N79-17847 *	#	US-PATENT-CLASS-423-350	c 31	N80-18231 *	#
US-PATENT-CLASS-415-145	c 07	N82-32366 *	#	US-PATENT-CLASS-416-89	c 05	N79-17847 *	#	US-PATENT-CLASS-423-352	c 36	N76-18427 *	#
US-PATENT-CLASS-415-170-R	c 37	N85-34402 *	#	US-PATENT-CLASS-416-92	c 07	N84-22560 *	#	US-PATENT-CLASS-423-407	c 24	N76-14203 *	#
US-PATENT-CLASS-415-174	c 37	N79-18318 *	#	US-PATENT-CLASS-416-97A	c 34	N85-33433 *	#	US-PATENT-CLASS-423-414	c 24	N84-22695 *	#
US-PATENT-CLASS-415-174	c 37	N80-26658 *	#	US-PATENT-CLASS-416-97R	c 34	N83-27144 *	#	US-PATENT-CLASS-423-414	c 31	N85-20153 *	#
US-PATENT-CLASS-415-174	c 37	N82-19540 *	#	US-PATENT-CLASS-416-97R	c 07	N84-22560 *	#	US-PATENT-CLASS-423-417	c 26	N80-14229 *	#
US-PATENT-CLASS-415-174	c 27	N82-29453 *	#	US-PATENT-CLASS-417-138	c 35	N75-19611 *	#	US-PATENT-CLASS-423-419P	c 25	N83-33977 *	#
US-PATENT-CLASS-415-174	c 18	N83-20996 *	#	US-PATENT-CLASS-417-141	c 44	N76-29701 *	#	US-PATENT-CLASS-423-445	c 24	N84-22695 *	#
US-PATENT-CLASS-415-174	c 37	N84-22957 *	#	US-PATENT-CLASS-417-152	c 15	N72-22489 *	#	US-PATENT-CLASS-423-445	c 31	N85-20153 *	#
US-PATENT-CLASS-415-174	c 37	N85-34402 *	#	US-PATENT-CLASS-417-159	c 09	N84-27749 *	#	US-PATENT-CLASS-423-445	c 24	N85-21267 *	#
US-PATENT-CLASS-415-174	c 37	N86-20788 *	#	US-PATENT-CLASS-417-15	c 37	N83-26078 *	#	US-PATENT-CLASS-423-446	c 15	N73-19457 *	#
US-PATENT-CLASS-415-175	c 07	N83-31603 *	#	US-PATENT-CLASS-417-207	c 44	N76-29701 *	#	US-PATENT-CLASS-423-446	c 24	N84-22695 *	#
US-PATENT-CLASS-415-178	c 07	N82-32366 *	#	US-PATENT-CLASS-417-209	c 34	N76-17317 *	#	US-PATENT-CLASS-423-446	c 31	N85-20153 *	#
US-PATENT-CLASS-415-178	c 07	N83-31603 *	#	US-PATENT-CLASS-417-209	c 44	N76-29701 *	#	US-PATENT-CLASS-423-446	c 24	N85-21267 *	#
US-PATENT-CLASS-415-180	c 07	N77-32106 *	#	US-PATENT-CLASS-417-225	c 35	N78-10428 *	#	US-PATENT-CLASS-423-447.2	c 24	N83-25789 *	#
US-PATENT-CLASS-415-180	c 37	N78-10467 *	#	US-PATENT-CLASS-417-328	c 37	N84-28081 *	#	US-PATENT-CLASS-423-447.6	c 24	N83-25789 *	#
US-PATENT-CLASS-415-181	c 07	N74-28226 *	#	US-PATENT-CLASS-417-36	c 35	N75-19611 *	#	US-PATENT-CLASS-423-447.7	c 24	N83-25789 *	#
US-PATENT-CLASS-415-181	c 07	N74-31270 *	#	US-PATENT-CLASS-417-379	c 44	N76-29701 *	#	US-PATENT-CLASS-423-449	c 24	N84-22695 *	#
US-PATENT-CLASS-415-196	c 37	N80-26658 *	#	US-PATENT-CLASS-417-383	c 37	N80-31790 *	#	US-PATENT-CLASS-423-449	c 31	N85-20153 *	#
US-PATENT-CLASS-415-196	c 37	N82-19540 *	#	US-PATENT-CLASS-417-391	c 15	N73-24513 *	#	US-PATENT-CLASS-423-449	c 24	N85-21267 *	#
US-PATENT-CLASS-415-196	c 37	N85-34402 *	#	US-PATENT-CLASS-417-392	c 37	N84-28081 *	#	US-PATENT-CLASS-423-539	c 25	N82-28368 *	#
US-PATENT-CLASS-415-197	c 18	N83-20996 *	#	US-PATENT-CLASS-417-395	c 35	N75-19611 *	#	US-PATENT-CLASS-423-540	c 25	N82-28368 *	#
US-PATENT-CLASS-415-199	c 05	N80-14107 *	#	US-PATENT-CLASS-417-399	c 44	N83-14693 *	#	US-PATENT-CLASS-423-542	c 25	N82-28368 *	#
US-PATENT-CLASS-415-1	c 34	N79-20335 *	#	US-PATENT-CLASS-417-417	c 44	N83-28574 *	#	US-PATENT-CLASS-423-579	c 46	N74-13011 *	#
US-PATENT-CLASS-415-1	c 07	N83-31603 *	#	US-PATENT-CLASS-417-417	c 31	N85-21404 *	#	US-PATENT-CLASS-423-579	c 25	N82-28368 *	#
US-PATENT-CLASS-415-1	c 37	N85-29282 *	#	US-PATENT-CLASS-417-462	c 37	N84-28081 *	#	US-PATENT-CLASS-423-581	c 25	N79-10162 *	#
US-PATENT-CLASS-415-2R	c 44	N82-24639 *	#	US-PATENT-CLASS-417-470	c 35	N74-15126 *	#	US-PATENT-CLASS-423-582	c 26	N78-32229 *	#
US-PATENT-CLASS-415-2R	c 44	N84-23018 *	#	US-PATENT-CLASS-417-471	c 35	N74-15126 *	#	US-PATENT-CLASS-423-583	c 26	N77-22607 *	#
US-PATENT-CLASS-415-200	c 07	N79-14096 *	#	US-PATENT-CLASS-417-488	c 31	N85-21404 *	#	US-PATENT-CLASS-423-600	c 25	N83-33977 *	#
US-PATENT-CLASS-415-200	c 37	N79-18318 *	#	US-PATENT-CLASS-417-50	c 15	N71-27084 *	#	US-PATENT-CLASS-423-625	c 15	N73-19457 *	#
US-PATENT-CLASS-415-200	c 37	N85-34402 *	#	US-PATENT-CLASS-417-52	c 37	N74-27904 *	#	US-PATENT-CLASS-423-625	c 26	N80-14229 *	#
US-PATENT-CLASS-415-201	c 07	N79-14096 *	#	US-PATENT-CLASS-417-88	c 44	N78-32539 *	#	US-PATENT-CLASS-423-644	c 36	N76-18427 *	#
US-PATENT-CLASS-415-2	c 44	N80-21828 *	#	US-PATENT-CLASS-418-113	c 37	N82-16408 *	#	US-PATENT-CLASS-423-648R	c 44	N77-22607 *	#
US-PATENT-CLASS-415-47	c 07	N83-31603 *	#	US-PATENT-CLASS-418-142	c 37	N82-16408 *	#	US-PATENT-CLASS-423-648R	c 28	N78-24365 *	#
US-PATENT-CLASS-415-68	c 37	N85-29282 *	#	US-PATENT-CLASS-42-1F	c 11	N72-22247 *	#	US-PATENT-CLASS-423-648R	c 28	N80-20402 *	#
US-PATENT-CLASS-415-9	c 44	N79-14527 *	#	US-PATENT-CLASS-42-215	c 44	N76-29704 *	#	US-PATENT-CLASS-423-648R	c 28	N81-14103 *	#
US-PATENT-CLASS-416-104	c 05	N77-17029 *	#	US-PATENT-CLASS-420-445	c 26	N82-31505 *	#	US-PATENT-CLASS-423-648R	c 25	N82-28368 *	#
US-PATENT-CLASS-416-114	c 05	N81-19087 *	#	US-PATENT-CLASS-420-551	c 26	N82-31505 *	#	US-PATENT-CLASS-423-648R	c 25	N83-29324 *	#
US-PATENT-CLASS-416-115	c 02	N72-11018 *	#	US-PATENT-CLASS-420-588	c 26	N82-31505 *	#	US-PATENT-CLASS-423-649	c 25	N83-29324 *	#
US-PATENT-CLASS-416-117	c 37	N84-12493 *	#	US-PATENT-CLASS-422-103	c 35	N85-29213 *	#	US-PATENT-CLASS-423-650	c 44	N76-18642 *	#
US-PATENT-CLASS-416-121	c 02	N72-11018 *	#	US-PATENT-CLASS-422-109	c 54	N81-24724 *	#	US-PATENT-CLASS-423-650	c 44	N76-29700 *	#
US-PATENT-CLASS-416-127	c 02	N72-11018 *	#	US-PATENT-CLASS-422-121	c 35	N84-17555 *	#	US-PATENT-CLASS-423-650	c 44	N76-29704 *	#
US-PATENT-CLASS-416-130	c 02	N72-11018 *	#	US-PATENT-CLASS-422-129	c 37	N85-21652 *	#	US-PATENT-CLASS-423-650	c 44	N77-10636 *	#
US-PATENT-CLASS-416-132B	c 37	N84-12493 *	#	US-PATENT-CLASS-422-169	c 35	N84-17555 *	#	US-PATENT-CLASS-423-650	c 28	N80-10374 *	#
US-PATENT-CLASS-416-132R	c 05	N79-17847 *	#	US-PATENT-CLASS-422-178	c 35	N84-17555 *	#	US-PATENT-CLASS-423-658.5	c 28	N81-15119 *	#
US-PATENT-CLASS-416-135	c 07	N77-32148 *	#	US-PATENT-CLASS-422-186	c 25	N82-28368 *	#	US-PATENT-CLASS-424-12	c 25	N79-14169 *	#
US-PATENT-CLASS-416-135	c 37	N78-10468 *	#	US-PATENT-CLASS-422-186	c 35	N84-17555 *	#	US-PATENT-CLASS-424-12	c 51	N80-16715 *	#
US-PATENT-CLASS-416-138	c 05	N77-17029 *	#	US-PATENT-CLASS-422-187	c 37	N80-10494 *	#	US-PATENT-CLASS-424-156	c 25	N83-33977 *	#
US-PATENT-CLASS-416-138	c 05	N79-17847 *	#	US-PATENT-CLASS-422-198	c 25	N82-28368 *	#	US-PATENT-CLASS-424-180	c 52	N75-15270 *	#
US-PATENT-CLASS-416-141	c 05	N77-17029 *	#	US-PATENT-CLASS-422-199	c 37	N80-10494 *	#	US-PATENT-CLASS-424-247	c 52	N81-29764 *	#
US-PATENT-CLASS-416-141	c 37	N78-10468 *	#	US-PATENT-CLASS-422-199	c 37	N85-21652 *	#	US-PATENT-CLASS-424-267	c 52	N81-29764 *	#
US-PATENT-CLASS-416-144	c 35	N78-24515 *	#								

US-PATENT-CLASS-425-28B	c 31	N74-32917 *	#	US-PATENT-CLASS-427-34	c 24	N79-17916 *	#	US-PATENT-CLASS-427-4	c 51	N77-27677 *	#
US-PATENT-CLASS-425-35	c 31	N74-32917 *	#	US-PATENT-CLASS-427-34	c 27	N82-29453 *	#	US-PATENT-CLASS-427-53.1	c 36	N84-22944 *	#
US-PATENT-CLASS-425-378R	c 31	N81-15154 *	#	US-PATENT-CLASS-427-34	c 27	N83-31855 *	#	US-PATENT-CLASS-427-53.1	c 37	N84-22957 *	#
US-PATENT-CLASS-425-405R	c 31	N75-13111 *	#	US-PATENT-CLASS-427-34	c 31	N83-35177 *	#	US-PATENT-CLASS-427-531	c 44	N82-28780 *	#
US-PATENT-CLASS-425-415	c 31	N74-32920 *	#	US-PATENT-CLASS-427-34	c 37	N84-22957 *	#	US-PATENT-CLASS-427-57	c 71	N84-16940 *	#
US-PATENT-CLASS-425-438	c 31	N75-13111 *	#	US-PATENT-CLASS-427-34	c 26	N84-27855 *	#	US-PATENT-CLASS-427-58	c 33	N84-16456 *	#
US-PATENT-CLASS-425-468	c 31	N75-13111 *	#	US-PATENT-CLASS-427-350	c 24	N79-25142 *	#	US-PATENT-CLASS-427-6	c 71	N84-16940 *	#
US-PATENT-CLASS-425-6	c 31	N81-33319 *	#	US-PATENT-CLASS-427-352	c 27	N83-34039 *	#	US-PATENT-CLASS-427-74	c 44	N82-28780 *	#
US-PATENT-CLASS-425-6	c 27	N82-28442 *	#	US-PATENT-CLASS-427-355	c 24	N79-17916 *	#	US-PATENT-CLASS-427-75	c 44	N78-25527 *	#
US-PATENT-CLASS-425-6	c 31	N83-31896 *	#	US-PATENT-CLASS-427-372.2	c 27	N82-33520 *	#	US-PATENT-CLASS-427-75	c 44	N79-11468 *	#
US-PATENT-CLASS-425-6	c 31	N83-35176 *	#	US-PATENT-CLASS-427-372.2	c 44	N84-28205 *	#	US-PATENT-CLASS-427-75	c 44	N79-11472 *	#
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US-PATENT-CLASS-425-77	c 15	N72-20446 *	#	US-PATENT-CLASS-427-376.2	c 26	N85-35267 *	#	US-PATENT-CLASS-427-84	c 44	N79-11472 *	#
US-PATENT-CLASS-425-7	c 31	N83-35176 *	#	US-PATENT-CLASS-427-376.6	c 33	N84-16456 *	#	US-PATENT-CLASS-427-85	c 44	N85-20530 *	#
US-PATENT-CLASS-427-113	c 44	N76-28635 *	#	US-PATENT-CLASS-427-376.7	c 33	N84-16456 *	#	US-PATENT-CLASS-427-86	c 44	N76-28635 *	#
US-PATENT-CLASS-427-113	c 44	N78-24609 *	#	US-PATENT-CLASS-427-376A	c 27	N78-32260 *	#	US-PATENT-CLASS-427-86	c 44	N78-24609 *	#
US-PATENT-CLASS-427-113	c 44	N84-28205 *	#	US-PATENT-CLASS-427-376B	c 27	N78-32260 *	#	US-PATENT-CLASS-427-88	c 44	N79-31752 *	#
US-PATENT-CLASS-427-115	c 25	N82-21268 *	#	US-PATENT-CLASS-427-376B	c 24	N79-17916 *	#	US-PATENT-CLASS-427-88	c 44	N83-13579 *	#
US-PATENT-CLASS-427-115	c 26	N84-22734 *	#	US-PATENT-CLASS-427-376C	c 24	N79-17916 *	#	US-PATENT-CLASS-427-88	c 33	N84-16456 *	#
US-PATENT-CLASS-427-115	c 44	N84-28205 *	#	US-PATENT-CLASS-427-376	c 27	N76-22377 *	#	US-PATENT-CLASS-427-89	c 44	N83-13579 *	#
US-PATENT-CLASS-427-123	c 44	N79-11472 *	#	US-PATENT-CLASS-427-376	c 27	N76-22377 *	#	US-PATENT-CLASS-427-90	c 44	N83-13579 *	#
US-PATENT-CLASS-427-124	c 37	N78-13436 *	#	US-PATENT-CLASS-427-376	c 27	N76-22377 *	#	US-PATENT-CLASS-427-91	c 44	N83-13579 *	#
US-PATENT-CLASS-427-125	c 26	N84-22734 *	#	US-PATENT-CLASS-427-379	c 27	N76-22377 *	#	US-PATENT-CLASS-427-95	c 25	N79-28253 *	#
US-PATENT-CLASS-427-125	c 44	N84-28205 *	#	US-PATENT-CLASS-427-379	c 27	N76-23426 *	#	US-PATENT-CLASS-427-96	c 33	N84-16456 *	#
US-PATENT-CLASS-427-126.6	c 26	N84-22734 *	#	US-PATENT-CLASS-427-379	c 27	N81-19296 *	#	US-PATENT-CLASS-428-109	c 27	N76-14264 *	#
US-PATENT-CLASS-427-126	c 37	N78-13436 *	#	US-PATENT-CLASS-427-379	c 24	N83-13171 *	#	US-PATENT-CLASS-428-109	c 33	N79-12331 *	#
US-PATENT-CLASS-427-126	c 44	N79-11472 *	#	US-PATENT-CLASS-427-379	c 24	N83-13172 *	#	US-PATENT-CLASS-428-113	c 24	N81-14000 *	#
US-PATENT-CLASS-427-130	c 44	N77-32583 *	#	US-PATENT-CLASS-427-379	c 44	N84-28205 *	#	US-PATENT-CLASS-428-114	c 24	N81-13999 *	#
US-PATENT-CLASS-427-140	c 27	N82-33520 *	#	US-PATENT-CLASS-427-37	c 24	N85-30027 *	#	US-PATENT-CLASS-428-114	c 24	N81-14000 *	#
US-PATENT-CLASS-427-140	c 24	N83-31712 *	#	US-PATENT-CLASS-427-380	c 27	N76-22377 *	#	US-PATENT-CLASS-428-116	c 24	N78-10214 *	#
US-PATENT-CLASS-427-160	c 34	N77-18382 *	#	US-PATENT-CLASS-427-380	c 27	N76-23426 *	#	US-PATENT-CLASS-428-116	c 24	N78-17149 *	#
US-PATENT-CLASS-427-160	c 44	N78-19599 *	#	US-PATENT-CLASS-427-380	c 27	N78-32260 *	#	US-PATENT-CLASS-428-117	c 37	N76-24575 *	#
US-PATENT-CLASS-427-162	c 12	N76-15189 *	#	US-PATENT-CLASS-427-380	c 44	N84-28205 *	#	US-PATENT-CLASS-428-117	c 24	N78-15180 *	#
US-PATENT-CLASS-427-164	c 27	N78-14164 *	#	US-PATENT-CLASS-427-380	c 26	N85-35267 *	#	US-PATENT-CLASS-428-117	c 24	N79-16915 *	#
US-PATENT-CLASS-427-164	c 27	N78-31233 *	#	US-PATENT-CLASS-427-384	c 24	N83-13171 *	#	US-PATENT-CLASS-428-119	c 24	N79-16915 *	#
US-PATENT-CLASS-427-164	c 74	N78-32854 *	#	US-PATENT-CLASS-427-384	c 24	N83-13172 *	#	US-PATENT-CLASS-428-133	c 37	N79-10422 *	#
US-PATENT-CLASS-427-164	c 27	N80-24437 *	#	US-PATENT-CLASS-427-385.5	c 27	N81-14078 *	#	US-PATENT-CLASS-428-137	c 24	N79-25142 *	#
US-PATENT-CLASS-427-178	c 24	N85-30027 *	#	US-PATENT-CLASS-427-385.5	c 27	N86-20561 *	#	US-PATENT-CLASS-428-138	c 24	N78-10214 *	#
US-PATENT-CLASS-427-191	c 26	N85-35267 *	#	US-PATENT-CLASS-427-385B	c 44	N78-25530 *	#	US-PATENT-CLASS-428-139	c 23	N81-29160 *	#
US-PATENT-CLASS-427-196	c 27	N76-15310 *	#	US-PATENT-CLASS-427-385C	c 44	N78-25530 *	#	US-PATENT-CLASS-428-140	c 24	N81-14000 *	#
US-PATENT-CLASS-427-203	c 27	N76-16229 *	#	US-PATENT-CLASS-427-386	c 24	N78-27180 *	#	US-PATENT-CLASS-428-141	c 24	N77-28225 *	#
US-PATENT-CLASS-427-204	c 27	N76-16229 *	#	US-PATENT-CLASS-427-387	c 74	N78-32854 *	#	US-PATENT-CLASS-428-141	c 27	N82-28440 *	#
US-PATENT-CLASS-427-205	c 27	N76-16229 *	#	US-PATENT-CLASS-427-387	c 24	N83-13171 *	#	US-PATENT-CLASS-428-141	c 27	N82-33521 *	#
US-PATENT-CLASS-427-205	c 27	N82-28441 *	#	US-PATENT-CLASS-427-387	c 24	N83-13172 *	#	US-PATENT-CLASS-428-155	c 37	N84-22957 *	#
US-PATENT-CLASS-427-215	c 27	N78-32260 *	#	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *	#	US-PATENT-CLASS-428-161	c 24	N77-28225 *	#
US-PATENT-CLASS-427-215	c 24	N83-33950 *	#	US-PATENT-CLASS-427-388A	c 24	N78-27180 *	#	US-PATENT-CLASS-428-182	c 18	N84-33450 *	#
US-PATENT-CLASS-427-216	c 33	N84-16456 *	#	US-PATENT-CLASS-427-38	c 74	N78-32854 *	#	US-PATENT-CLASS-428-184	c 18	N84-33450 *	#
US-PATENT-CLASS-427-217	c 33	N84-16456 *	#	US-PATENT-CLASS-427-38	c 27	N80-24437 *	#	US-PATENT-CLASS-428-189	c 27	N79-12221 *	#
US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	#	US-PATENT-CLASS-427-38	c 26	N85-29005 *	#	US-PATENT-CLASS-428-192	c 27	N82-24339 *	#
US-PATENT-CLASS-427-221	c 27	N81-19296 *	#	US-PATENT-CLASS-427-38	c 27	N86-19458 *	#	US-PATENT-CLASS-428-193	c 27	N82-24339 *	#
US-PATENT-CLASS-427-226	c 33	N84-16456 *	#	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	#	US-PATENT-CLASS-428-202	c 27	N84-14323 *	#
US-PATENT-CLASS-427-226	c 44	N84-28205 *	#	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	#	US-PATENT-CLASS-428-212	c 27	N76-14264 *	#
US-PATENT-CLASS-427-228	c 26	N85-35267 *	#	US-PATENT-CLASS-427-397.7	c 26	N85-35267 *	#	US-PATENT-CLASS-428-212	c 27	N79-12221 *	#
US-PATENT-CLASS-427-229	c 25	N78-10225 *	#	US-PATENT-CLASS-427-398A	c 44	N79-11472 *	#	US-PATENT-CLASS-428-212	c 27	N82-29456 *	#
US-PATENT-CLASS-427-230	c 37	N76-31524 *	#	US-PATENT-CLASS-427-399	c 44	N79-11472 *	#	US-PATENT-CLASS-428-214	c 27	N76-14264 *	#
US-PATENT-CLASS-427-240	c 37	N81-33482 *	#	US-PATENT-CLASS-427-399	c 36	N84-22944 *	#	US-PATENT-CLASS-428-218	c 27	N82-29456 *	#
US-PATENT-CLASS-427-241	c 24	N83-33950 *	#	US-PATENT-CLASS-427-39	c 24	N85-21267 *	#	US-PATENT-CLASS-428-218	c 24	N83-13171 *	#
US-PATENT-CLASS-427-243	c 31	N83-35177 *	#	US-PATENT-CLASS-427-400	c 27	N83-34039 *	#	US-PATENT-CLASS-428-220	c 15	N79-26100 *	#
US-PATENT-CLASS-427-244	c 25	N82-21268 *	#	US-PATENT-CLASS-427-402	c 27	N76-22377 *	#	US-PATENT-CLASS-428-241	c 27	N82-24339 *	#
US-PATENT-CLASS-427-245	c 27	N80-23452 *	#	US-PATENT-CLASS-427-402	c 27	N76-23426 *	#	US-PATENT-CLASS-428-241	c 27	N83-18908 *	#
US-PATENT-CLASS-427-246	c 25	N82-21268 *	#	US-PATENT-CLASS-427-405	c 34	N78-18355 *	#	US-PATENT-CLASS-428-242	c 27	N82-24339 *	#
US-PATENT-CLASS-427-247	c 31	N83-35177 *	#	US-PATENT-CLASS-427-405	c 27	N82-28441 *	#	US-PATENT-CLASS-428-244	c 27	N83-18908 *	#
US-PATENT-CLASS-427-248.1	c 27	N86-19458 *	#	US-PATENT-CLASS-427-405	c 27	N83-31855 *	#	US-PATENT-CLASS-428-245	c 27	N82-24339 *	#
US-PATENT-CLASS-427-248E	c 37	N78-13436 *	#	US-PATENT-CLASS-427-405	c 26	N84-27855 *	#	US-PATENT-CLASS-428-245	c 27	N83-18908 *	#
US-PATENT-CLASS-427-248J	c 44	N78-24609 *	#	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *	#	US-PATENT-CLASS-428-246	c 27	N84-14322 *	#
US-PATENT-CLASS-427-248	c 44	N76-28635 *	#	US-PATENT-CLASS-427-40	c 27	N78-31233 *	#	US-PATENT-CLASS-428-246	c 03	N84-33394 *	#
US-PATENT-CLASS-427-249	c 44	N76-28635 *	#	US-PATENT-CLASS-427-40	c 27	N79-18052 *	#	US-PATENT-CLASS-428-247	c 33	N79-12331 *	#
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US-PATENT-CLASS-427-250	c 12	N76-15189 *	#	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *	#	US-PATENT-CLASS-428-251	c 27	N82-24339 *	#
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US-PATENT-CLASS-427-250	c 37	N78-13436 *	#	US-PATENT-CLASS-427-419A	c 34	N78-18355 *	#	US-PATENT-CLASS-428-258	c 33	N79-12331 *	#
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US-PATENT-CLASS-427-255	c 37	N78-13436 *	#	US-PATENT-CLASS-427-41	c 74	N78-32854 *	#	US-PATENT-CLASS-428-260	c 27	N81-27272 *	#
US-PATENT-CLASS-427-261	c 44	N78-25527 *	#	US-PATENT-CLASS-427-41	c 27	N79-14214 *	#	US-PATENT-CLASS-428-260	c 27	N82-24339 *	#
US-PATENT-CLASS-427-261	c 44	N79-11472 *	#	US-PATENT-CLASS-427-41	c 27	N79-18052 *	#	US-PATENT-CLASS-428-260	c 27	N83-18908 *	#
US-PATENT-CLASS-427-270	c 27	N76-16229 *	#	US-PATENT-CLASS-427-41	c 27	N80-23452 *	#	US-PATENT-CLASS-428-260	c 27	N84-14322 *	#
US-PATENT-CLASS-427-275	c 27	N76-16229 *	#	US-PATENT-CLASS-427-421	c 71	N84-16940 *	#	US-PATENT-CLASS-428-260	c 27	N85-34281 *	#
US-PATENT-CLASS-427-287	c 27	N76-16229 *	#	US-PATENT-CLASS-427-422	c 24	N85-30027 *	#	US-PATENT-CLASS-428-263	c 27	N82-16238 *	#
US-PATENT-CLASS-427-292	c 24	N79-17916 *	#	US-PATENT-CLASS-427-423	c 34	N78-18355 *	#	US-PATENT-CLASS-428-264	c 27	N82-16238 *	#
US-PATENT-CLASS-427-292	c 24	N83-13172 *	#	US-PATENT-CLASS-427-423	c 27	N82-29453 *	#	US-PATENT-CLASS-428-265	c 27	N82-16238 *	#
US-PATENT-CLASS-427-294	c 27	N79-14214 *	#	US-PATENT-CLASS-427-423	c 27	N83-31855 *	#	US-PATENT-CLASS-428-266	c 27	N82-24339 *	#
US-PATENT-CLASS-427-294	c 26	N85-35267 *	#	US-PATENT-CLASS-427-423	c 31	N83-35177 *	#	US-PATENT-CLASS-428-267	c 27	N82-16238 *	#
US-PATENT-CLASS-427-296	c 26	N84-22734 *	#	US-PATENT-CLASS-427-423	c 37	N84-22957 *	#	US-PATENT-CLASS-428-272	c 27	N82-16238 *	#
US-PATENT-CLASS-427-302	c 74	N78-32854 *	#	US-PATENT-CLASS-427-425	c 37	N82-24492 *	#	US-PATENT-CLASS-428-280	c 27	N79-12221 *	#
US-PATENT-CLASS-427-302	c 24	N83-13172 *	#	US-PATENT-CLASS-427-426	c 27	N76-15310 *	#	US-PATENT-CLASS-428-280	c 03	N84-33394 *	#
US-PATENT-CLASS-427-306	c 26	N84-22734 *	#	US-PATENT-CLASS-427-426	c 71	N84-16940 *	#	US-PATENT-CLASS-428-282	c 24	N79-25142 *	#
US-PATENT-CLASS-427-318	c 26	N83-31795 *	#	US-PATENT-CLASS-427-427	c 24	N78-24290 *	#	US-PATENT-CLASS-428-283	c 24	N82-29362 *	#
US-PATENT-CLASS-427-322</											

US-PATENT-CLASS-428-290	c 24	N78-15180 *	#	US-PATENT-CLASS-428-450	c 27	N76-16229 *	#	US-PATENT-CLASS-428-704	c 26	N85-35267 *	#
US-PATENT-CLASS-428-290	c 24	N79-25142 *	#	US-PATENT-CLASS-428-450	c 27	N76-22377 *	#	US-PATENT-CLASS-428-71	c 24	N78-15180 *	#
US-PATENT-CLASS-428-294	c 24	N78-17150 *	#	US-PATENT-CLASS-428-450	c 27	N76-23426 *	#	US-PATENT-CLASS-428-71	c 03	N84-33394 *	#
US-PATENT-CLASS-428-294	c 76	N83-34796 *	#	US-PATENT-CLASS-428-450	c 27	N79-12221 *	#	US-PATENT-CLASS-428-73	c 24	N78-10214 *	#
US-PATENT-CLASS-428-301	c 24	N77-27188 *	#	US-PATENT-CLASS-428-450	c 26	N83-31795 *	#	US-PATENT-CLASS-428-73	c 24	N78-15180 *	#
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US-PATENT-CLASS-428-303	c 27	N76-15310 *	#	US-PATENT-CLASS-428-457	c 27	N76-16229 *	#	US-PATENT-CLASS-428-76	c 03	N84-33394 *	#
US-PATENT-CLASS-428-304.4	c 03	N84-33394 *	#	US-PATENT-CLASS-428-457	c 24	N77-27188 *	#	US-PATENT-CLASS-428-77	c 27	N76-14264 *	#
US-PATENT-CLASS-428-307.7	c 27	N82-29456 *	#	US-PATENT-CLASS-428-457	c 24	N77-28225 *	#	US-PATENT-CLASS-428-77	c 27	N79-12221 *	#
US-PATENT-CLASS-428-311.5	c 27	N82-29456 *	#	US-PATENT-CLASS-428-457	c 26	N82-30371 *	#	US-PATENT-CLASS-428-78	c 27	N78-14323 *	#
US-PATENT-CLASS-428-312.6	c 27	N82-29456 *	#	US-PATENT-CLASS-428-458	c 24	N77-28225 *	#	US-PATENT-CLASS-428-902	c 24	N77-27188 *	#
US-PATENT-CLASS-428-312.6	c 44	N83-34448 *	#	US-PATENT-CLASS-428-458	c 24	N79-16915 *	#	US-PATENT-CLASS-428-902	c 24	N78-10214 *	#
US-PATENT-CLASS-428-312	c 27	N78-32260 *	#	US-PATENT-CLASS-428-458	c 27	N86-20561 *	#	US-PATENT-CLASS-428-902	c 24	N78-17149 *	#
US-PATENT-CLASS-428-313	c 24	N78-27180 *	#	US-PATENT-CLASS-428-461	c 34	N77-18382 *	#	US-PATENT-CLASS-428-902	c 24	N81-14000 *	#
US-PATENT-CLASS-428-317.9	c 27	N82-29456 *	#	US-PATENT-CLASS-428-462	c 27	N82-24340 *	#	US-PATENT-CLASS-428-902	c 31	N81-25258 *	#
US-PATENT-CLASS-428-319.1	c 03	N84-33394 *	#	US-PATENT-CLASS-428-466	c 27	N82-24340 *	#	US-PATENT-CLASS-428-902	c 27	N81-27272 *	#
US-PATENT-CLASS-428-325	c 27	N78-32260 *	#	US-PATENT-CLASS-428-469	c 27	N76-16229 *	#	US-PATENT-CLASS-428-902	c 27	N83-18908 *	#
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US-PATENT-CLASS-428-328	c 24	N77-27188 *	#	US-PATENT-CLASS-428-472	c 26	N82-30371 *	#	US-PATENT-CLASS-428-902	c 27	N84-22745 *	#
US-PATENT-CLASS-428-331	c 27	N78-32260 *	#	US-PATENT-CLASS-428-473.5	c 27	N81-14078 *	#	US-PATENT-CLASS-428-903	c 24	N83-33950 *	#
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US-PATENT-CLASS-428-332	c 27	N76-22377 *	#	US-PATENT-CLASS-428-473.5	c 27	N84-14322 *	#	US-PATENT-CLASS-428-911	c 24	N77-27188 *	#
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US-PATENT-CLASS-428-332	c 24	N78-27180 *	#	US-PATENT-CLASS-428-474	c 34	N77-18382 *	#	US-PATENT-CLASS-428-913	c 27	N83-18908 *	#
US-PATENT-CLASS-428-332	c 27	N79-12221 *	#	US-PATENT-CLASS-428-474	c 27	N79-33316 *	#	US-PATENT-CLASS-428-920	c 27	N85-33826 *	#
US-PATENT-CLASS-428-332	c 24	N79-25142 *	#	US-PATENT-CLASS-428-474	c 27	N80-24437 *	#	US-PATENT-CLASS-428-920	c 27	N76-16230 *	#
US-PATENT-CLASS-428-332	c 27	N82-24340 *	#	US-PATENT-CLASS-428-480	c 24	N81-14000 *	#	US-PATENT-CLASS-428-920	c 27	N76-22377 *	#
US-PATENT-CLASS-428-334	c 74	N78-15879 *	#	US-PATENT-CLASS-428-483	c 27	N82-24340 *	#	US-PATENT-CLASS-428-920	c 27	N76-23426 *	#
US-PATENT-CLASS-428-336	c 74	N78-15879 *	#	US-PATENT-CLASS-428-489	c 27	N82-24340 *	#	US-PATENT-CLASS-428-920	c 24	N78-15180 *	#
US-PATENT-CLASS-428-339	c 27	N82-24340 *	#	US-PATENT-CLASS-428-49	c 27	N82-29456 *	#	US-PATENT-CLASS-428-920	c 27	N78-32260 *	#
US-PATENT-CLASS-428-341	c 27	N78-32260 *	#	US-PATENT-CLASS-428-500	c 27	N80-32516 *	#	US-PATENT-CLASS-428-920	c 27	N79-12221 *	#
US-PATENT-CLASS-428-347	c 27	N84-14323 *	#	US-PATENT-CLASS-428-515	c 27	N78-31233 *	#	US-PATENT-CLASS-428-920	c 24	N79-25142 *	#
US-PATENT-CLASS-428-35	c 34	N77-18382 *	#	US-PATENT-CLASS-428-522	c 27	N78-14164 *	#	US-PATENT-CLASS-428-920	c 15	N79-26100 *	#
US-PATENT-CLASS-428-366	c 24	N79-24062 *	#	US-PATENT-CLASS-428-523	c 27	N78-31233 *	#	US-PATENT-CLASS-428-920	c 27	N81-27272 *	#
US-PATENT-CLASS-428-367	c 27	N81-27272 *	#	US-PATENT-CLASS-428-528	c 24	N81-13999 *	#	US-PATENT-CLASS-428-920	c 27	N83-18908 *	#
US-PATENT-CLASS-428-367	c 24	N83-33950 *	#	US-PATENT-CLASS-428-538	c 27	N76-22377 *	#	US-PATENT-CLASS-428-920	c 27	N84-14322 *	#
US-PATENT-CLASS-428-367	c 27	N84-14322 *	#	US-PATENT-CLASS-428-538	c 27	N76-23426 *	#	US-PATENT-CLASS-428-921	c 27	N84-22745 *	#
US-PATENT-CLASS-428-368	c 24	N77-27188 *	#	US-PATENT-CLASS-428-538	c 27	N78-31233 *	#	US-PATENT-CLASS-428-921	c 27	N76-16230 *	#
US-PATENT-CLASS-428-368	c 27	N83-18908 *	#	US-PATENT-CLASS-428-539	c 27	N76-16229 *	#	US-PATENT-CLASS-428-921	c 24	N78-27180 *	#
US-PATENT-CLASS-428-370	c 27	N84-22745 *	#	US-PATENT-CLASS-428-541	c 24	N81-13999 *	#	US-PATENT-CLASS-428-921	c 24	N81-13999 *	#
US-PATENT-CLASS-428-375	c 24	N79-16915 *	#	US-PATENT-CLASS-428-564	c 26	N84-33555 *	#	US-PATENT-CLASS-428-922	c 03	N84-33394 *	#
US-PATENT-CLASS-428-375	c 24	N83-33950 *	#	US-PATENT-CLASS-428-593	c 24	N82-24296 *	#	US-PATENT-CLASS-428-922	c 27	N84-33941 *	#
US-PATENT-CLASS-428-392	c 24	N83-33950 *	#	US-PATENT-CLASS-428-593	c 24	N84-11214 *	#	US-PATENT-CLASS-428-938	c 27	N82-28441 *	#
US-PATENT-CLASS-428-406	c 27	N78-32260 *	#	US-PATENT-CLASS-428-594	c 24	N82-24296 *	#	US-PATENT-CLASS-428-941	c 34	N78-25350 *	#
US-PATENT-CLASS-428-408	c 27	N81-27272 *	#	US-PATENT-CLASS-428-594	c 24	N82-32417 *	#	US-PATENT-CLASS-428-941	c 27	N82-28441 *	#
US-PATENT-CLASS-428-408	c 27	N84-14322 *	#	US-PATENT-CLASS-428-595	c 18	N84-33450 *	#	US-PATENT-CLASS-428-94	c 34	N78-25350 *	#
US-PATENT-CLASS-428-408	c 27	N84-22745 *	#	US-PATENT-CLASS-428-604	c 24	N82-24296 *	#	US-PATENT-CLASS-428-95	c 34	N78-25350 *	#
US-PATENT-CLASS-428-408	c 27	N85-34281 *	#	US-PATENT-CLASS-428-604	c 24	N82-32417 *	#	US-PATENT-CLASS-428-96	c 34	N78-25350 *	#
US-PATENT-CLASS-428-40	c 27	N84-14323 *	#	US-PATENT-CLASS-428-607	c 24	N82-32417 *	#	US-PATENT-CLASS-428-97	c 34	N78-25350 *	#
US-PATENT-CLASS-428-410	c 23	N86-19376 *	#	US-PATENT-CLASS-428-608	c 24	N82-32417 *	#	US-PATENT-CLASS-429-101	c 44	N79-17313 *	#
US-PATENT-CLASS-428-411	c 27	N78-14164 *	#	US-PATENT-CLASS-428-623	c 27	N83-31855 *	#	US-PATENT-CLASS-429-101	c 44	N79-26474 *	#
US-PATENT-CLASS-428-411	c 27	N78-31233 *	#	US-PATENT-CLASS-428-629	c 27	N83-31855 *	#	US-PATENT-CLASS-429-101	c 33	N80-20487 *	#
US-PATENT-CLASS-428-411	c 27	N79-14214 *	#	US-PATENT-CLASS-428-632	c 44	N80-16452 *	#	US-PATENT-CLASS-429-105	c 44	N77-22606 *	#
US-PATENT-CLASS-428-412	c 27	N76-16230 *	#	US-PATENT-CLASS-428-632	c 26	N81-25188 *	#	US-PATENT-CLASS-429-105	c 33	N80-20487 *	#
US-PATENT-CLASS-428-412	c 27	N78-31233 *	#	US-PATENT-CLASS-428-632	c 26	N84-27855 *	#	US-PATENT-CLASS-429-105	c 44	N83-27344 *	#
US-PATENT-CLASS-428-412	c 74	N78-32854 *	#	US-PATENT-CLASS-428-633	c 34	N78-18355 *	#	US-PATENT-CLASS-429-107	c 44	N77-22606 *	#
US-PATENT-CLASS-428-412	c 27	N79-18052 *	#	US-PATENT-CLASS-428-633	c 27	N83-31855 *	#	US-PATENT-CLASS-429-107	c 33	N80-20487 *	#
US-PATENT-CLASS-428-413	c 27	N76-16230 *	#	US-PATENT-CLASS-428-633	c 24	N85-21266 *	#	US-PATENT-CLASS-429-107	c 44	N83-27344 *	#
US-PATENT-CLASS-428-413	c 15	N79-26100 *	#	US-PATENT-CLASS-428-633	c 24	N85-35233 *	#	US-PATENT-CLASS-429-109	c 44	N80-20487 *	#
US-PATENT-CLASS-428-413	c 24	N81-14000 *	#	US-PATENT-CLASS-428-639	c 26	N84-33555 *	#	US-PATENT-CLASS-429-109	c 44	N83-27344 *	#
US-PATENT-CLASS-428-413	c 27	N85-34281 *	#	US-PATENT-CLASS-428-63	c 24	N83-31712 *	#	US-PATENT-CLASS-429-109	c 44	N86-19721 *	#
US-PATENT-CLASS-428-414	c 15	N79-26100 *	#	US-PATENT-CLASS-428-641	c 26	N83-31795 *	#	US-PATENT-CLASS-429-111	c 25	N84-12262 *	#
US-PATENT-CLASS-428-416	c 27	N78-14264 *	#	US-PATENT-CLASS-428-650	c 44	N80-16452 *	#	US-PATENT-CLASS-429-111	c 44	N84-23019 *	#
US-PATENT-CLASS-428-418	c 24	N77-27188 *	#	US-PATENT-CLASS-428-650	c 26	N83-31795 *	#	US-PATENT-CLASS-429-120	c 44	N81-24521 *	#
US-PATENT-CLASS-428-418	c 15	N79-26100 *	#	US-PATENT-CLASS-428-652	c 34	N78-18355 *	#	US-PATENT-CLASS-429-139	c 27	N80-32516 *	#
US-PATENT-CLASS-428-421	c 34	N77-18382 *	#	US-PATENT-CLASS-428-652	c 44	N78-19599 *	#	US-PATENT-CLASS-429-139	c 27	N81-24257 *	#
US-PATENT-CLASS-428-421	c 15	N79-26100 *	#	US-PATENT-CLASS-428-656	c 24	N85-21266 *	#	US-PATENT-CLASS-429-13	c 44	N79-10513 *	#
US-PATENT-CLASS-428-421	c 27	N80-24437 *	#	US-PATENT-CLASS-428-656	c 24	N85-35233 *	#	US-PATENT-CLASS-429-144	c 44	N82-29708 *	#
US-PATENT-CLASS-428-421	c 76	N83-34796 *	#	US-PATENT-CLASS-428-658	c 44	N80-16452 *	#	US-PATENT-CLASS-429-144	c 44	N83-32176 *	#
US-PATENT-CLASS-428-422	c 27	N78-31233 *	#	US-PATENT-CLASS-428-667	c 34	N78-18355 *	#	US-PATENT-CLASS-429-15	c 44	N79-26474 *	#
US-PATENT-CLASS-428-422	c 76	N83-34796 *	#	US-PATENT-CLASS-428-667	c 44	N78-19599 *	#	US-PATENT-CLASS-429-15	c 44	N86-19721 *	#
US-PATENT-CLASS-428-423.5	c 03	N84-33394 *	#	US-PATENT-CLASS-428-675	c 44	N80-16452 *	#	US-PATENT-CLASS-429-160	c 44	N81-24521 *	#
US-PATENT-CLASS-428-425	c 24	N77-28225 *	#	US-PATENT-CLASS-428-678	c 26	N81-25188 *	#	US-PATENT-CLASS-429-164	c 44	N81-24521 *	#
US-PATENT-CLASS-428-426	c 74	N78-15879 *	#	US-PATENT-CLASS-428-678	c 27	N83-31855 *	#	US-PATENT-CLASS-429-190	c 44	N77-22606 *	#
US-PATENT-CLASS-428-427	c 27	N78-32260 *	#	US-PATENT-CLASS-428-678	c 26	N84-33555 *	#	US-PATENT-CLASS-429-193	c 44	N82-29710 *	#
US-PATENT-CLASS-428-427	c 44	N83-34448 *	#	US-PATENT-CLASS-428-678	c 24	N85-21266 *	#	US-PATENT-CLASS-429-19	c 44	N86-19721 *	#
US-PATENT-CLASS-428-428	c 27	N76-22377 *	#	US-PATENT-CLASS-428-678	c 24	N85-35233 *	#	US-PATENT-CLASS-429-206	c 25	N83-13188 *	#
US-PATENT-CLASS-428-428	c 27	N76-23426 *	#	US-PATENT-CLASS-428-679	c 44	N78-19599 *	#	US-PATENT-CLASS-429-206	c 33	N84-14422 *	#
US-PATENT-CLASS-428-428	c 74	N78-15879 *	#	US-PATENT-CLASS-428-679	c 26	N81-25188 *	#	US-PATENT-CLASS-429-206	c 33	N85-29144 *	#
US-PATENT-CLASS-428-428	c 27	N78-32260 *	#	US-PATENT-CLASS-428-679	c 24	N85-21266 *	#	US-PATENT-CLASS-429-223	c 26	N84-22734 *	#
US-PATENT-CLASS-428-428	c 44	N83-34448 *	#	US-PATENT-CLASS-428-680	c 24	N85-35233 *	#	US-PATENT-CLASS-429-229	c 33	N84-14422 *	#
US-PATENT-CLASS-428-432	c 27	N84-33589 *	#	US-PATENT-CLASS-428-680	c 44	N80-16452 *	#	US-PATENT-CLASS-429-234	c 26	N84-22734 *	#
US-PATENT-CLASS-428-432	c 76	N85-33826 *	#	US-PATENT-CLASS-428-680	c 26	N81-25188 *	#	US-PATENT-CLASS-429-23	c 44	N77-14581 *	#
US-PATENT-CLASS-428-446	c 27	N78-32260 *	#	US-PATENT-CLASS-428-680	c 26	N83-31795 *	#	US-PATENT-CLASS-429-249	c 27	N81-24257 *	#
US-PATENT-CLASS-428-446	c 27	N82-29456 *	#	US-PATENT-CLASS-428-680	c 24	N85-21266 *	#	US-PATENT-CLASS-429-249	c 23	N81-29160 *	#
US-PATENT-CLASS-428-446	c 27	N86-19458 *	#	US-PATENT-CLASS-428-681	c 24	N85-35233 *	#	US-PATENT-CLASS-429-249	c 33	N85-29144 *	#
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US-PATENT-CLASS-525-340	c 27	N80-24438 *	#	US-PATENT-CLASS-528-173	c 27	N82-11206 *	#	US-PATENT-CLASS-528-351	c 27	N82-11206 *	#
US-PATENT-CLASS-525-374	c 27	N80-24438 *	#	US-PATENT-CLASS-528-179	c 27	N86-19456 *	#	US-PATENT-CLASS-528-352	c 27	N85-21348 *	#
US-PATENT-CLASS-525-375	c 27	N80-24438 *	#	US-PATENT-CLASS-528-180	c 27	N82-11206 *	#	US-PATENT-CLASS-528-352	c 27	N85-34280 *	#
US-PATENT-CLASS-525-384	c 28	N81-15119 *	#	US-PATENT-CLASS-528-182	c 27	N86-19456 *	#	US-PATENT-CLASS-528-352	c 27	N86-19456 *	#
US-PATENT-CLASS-525-389	c 27	N84-22750 *	#	US-PATENT-CLASS-528-183	c 27	N84-22746 *	#	US-PATENT-CLASS-528-353	c 27	N81-19296 *	#
US-PATENT-CLASS-525-417	c 27	N84-22745 *	#	US-PATENT-CLASS-528-183	c 27	N85-20123 *	#	US-PATENT-CLASS-528-353	c 27	N82-11206 *	#
US-PATENT-CLASS-525-420	c 27	N85-20123 *	#	US-PATENT-CLASS-528-185	c 27	N84-22749 *	#	US-PATENT-CLASS-528-353	c 27	N85-21348 *	#
US-PATENT-CLASS-525-423	c 24	N86-19380 *	#	US-PATENT-CLASS-528-185	c 27	N85-21348 *	#	US-PATENT-CLASS-528-353	c 27	N85-34280 *	#
US-PATENT-CLASS-525-426	c 27	N80-26446 *	#	US-PATENT-CLASS-528-185	c 27	N86-19456 *	#	US-PATENT-CLASS-528-353	c 27	N86-19456 *	#
US-PATENT-CLASS-525-426	c 27	N84-22746 *	#	US-PATENT-CLASS-528-186	c 27	N85-21348 *	#	US-PATENT-CLASS-528-361	c 24	N84-11213 *	#
US-PATENT-CLASS-525-432	c 27	N86-19456 *	#	US-PATENT-CLASS-528-187	c 27	N85-21348 *	#	US-PATENT-CLASS-528-362	c 25	N81-14016 *	#
US-PATENT-CLASS-525-436	c 27	N86-19456 *	#	US-PATENT-CLASS-528-192	c 27	N85-20123 *	#	US-PATENT-CLASS-528-362	c 27	N81-17259 *	#
US-PATENT-CLASS-525-474	c 27	N83-28240 *	#	US-PATENT-CLASS-528-207	c 27	N80-16158 *	#	US-PATENT-CLASS-528-362	c 27	N81-17262 *	#
US-PATENT-CLASS-525-474	c 27	N85-21349 *	#	US-PATENT-CLASS-528-207	c 27	N82-11206 *	#	US-PATENT-CLASS-528-362	c 27	N82-24338 *	#
US-PATENT-CLASS-525-47	c 27	N85-29043 *	#	US-PATENT-CLASS-528-208	c 27	N80-16158 *	#	US-PATENT-CLASS-528-362	c 27	N84-22744 *	#
US-PATENT-CLASS-525-484	c 24	N84-34571 *	#	US-PATENT-CLASS-528-208	c 27	N82-11206 *	#	US-PATENT-CLASS-528-362	c 27	N84-27884 *	#
US-PATENT-CLASS-525-4	c 25	N80-23383 *	#	US-PATENT-CLASS-528-210	c 27	N82-11206 *	#	US-PATENT-CLASS-528-38	c 27	N83-34040 *	#
US-PATENT-CLASS-525-527	c 24	N86-19380 *	#	US-PATENT-CLASS-528-211	c 27	N82-11206 *	#	US-PATENT-CLASS-528-394	c 27	N84-22750 *	#
US-PATENT-CLASS-525-532	c 23	N85-28973 *	#	US-PATENT-CLASS-528-220	c 27	N83-34040 *	#	US-PATENT-CLASS-528-399	c 27	N81-27271 *	#
US-PATENT-CLASS-525-534	c 27	N84-22747 *	#	US-PATENT-CLASS-528-220	c 27	N84-22746 *	#	US-PATENT-CLASS-528-399	c 27	N82-18389 *	#
US-PATENT-CLASS-525-534	c 23	N85-28973 *	#	US-PATENT-CLASS-528-220	c 27	N85-20123 *	#	US-PATENT-CLASS-528-399	c 27	N84-22750 *	#
US-PATENT-CLASS-525-535	c 27	N84-22747 *	#	US-PATENT-CLASS-528-221	c 27	N79-28307 *	#	US-PATENT-CLASS-528-401	c 27	N79-22300 *	#
US-PATENT-CLASS-525-536	c 27	N84-22747 *	#	US-PATENT-CLASS-528-222	c 27	N81-29229 *	#	US-PATENT-CLASS-528-401	c 25	N81-14016 *	#
US-PATENT-CLASS-525-56	c 23	N81-29160 *	#	US-PATENT-CLASS-528-222	c 27	N83-34040 *	#	US-PATENT-CLASS-528-401	c 27	N81-17259 *	#
US-PATENT-CLASS-525-61	c 27	N81-24257 *	#	US-PATENT-CLASS-528-222	c 27	N83-34041 *	#	US-PATENT-CLASS-528-401	c 27	N81-17262 *	#
US-PATENT-CLASS-525-61	c 23	N81-29160 *	#	US-PATENT-CLASS-528-223	c 27	N79-28307 *	#	US-PATENT-CLASS-528-401	c 27	N82-24338 *	#
US-PATENT-CLASS-525-61	c 25	N83-13188 *	#	US-PATENT-CLASS-528-225	c 27	N79-28307 *	#	US-PATENT-CLASS-528-401	c 23	N82-28353 *	#
US-PATENT-CLASS-526-13	c 27	N78-32256 *	#	US-PATENT-CLASS-528-225	c 27	N82-11206 *	#	US-PATENT-CLASS-528-401	c 27	N84-22744 *	#
US-PATENT-CLASS-526-193	c 27	N78-15276 *	#	US-PATENT-CLASS-528-226	c 27	N83-34041 *	#	US-PATENT-CLASS-528-402	c 25	N82-24312 *	#
US-PATENT-CLASS-526-1	c 27	N76-24405 *	#	US-PATENT-CLASS-528-226	c 27	N85-20124 *	#	US-PATENT-CLASS-528-407	c 24	N84-34571 *	#
US-PATENT-CLASS-526-201	c 25	N81-19242 *	#	US-PATENT-CLASS-528-226	c 27	N85-21348 *	#	US-PATENT-CLASS-528-407	c 27	N85-34281 *	#
US-PATENT-CLASS-526-204	c 25	N85-30039 *	#	US-PATENT-CLASS-528-227	c 27	N79-28307 *	#	US-PATENT-CLASS-528-407	c 27	N85-34282 *	#
US-PATENT-CLASS-526-217	c 27	N85-21350 *	#	US-PATENT-CLASS-528-228	c 27	N81-27272 *	#	US-PATENT-CLASS-528-422	c 27	N79-22300 *	#
US-PATENT-CLASS-526-217	c 25	N85-30039 *	#	US-PATENT-CLASS-528-228	c 27	N82-11206 *	#	US-PATENT-CLASS-528-422	c 25	N81-14016 *	#
US-PATENT-CLASS-526-225	c 27	N78-15276 *	#	US-PATENT-CLASS-528-228	c 27	N83-34040 *	#	US-PATENT-CLASS-528-422	c 27	N81-17259 *	#
US-PATENT-CLASS-526-23	c 27	N78-32256 *	#	US-PATENT-CLASS-528-228	c 27	N84-22745 *	#	US-PATENT-CLASS-528-422	c 27	N81-17262 *	#
US-PATENT-CLASS-526-255	c 27	N76-24405 *	#	US-PATENT-CLASS-528-229	c 27	N79-28307 *	#	US-PATENT-CLASS-528-422	c 27	N82-24338 *	#
US-PATENT-CLASS-526-259	c 27	N83-34040 *	#	US-PATENT-CLASS-528-229	c 27	N79-33316 *	#	US-PATENT-CLASS-528-422	c 23	N82-28353 *	#
US-PATENT-CLASS-526-261	c 27	N80-24438 *	#	US-PATENT-CLASS-528-229	c 27	N81-29229 *	#	US-PATENT-CLASS-528-422	c 27	N84-22744 *	#
US-PATENT-CLASS-526-262	c 27	N81-27272 *	#	US-PATENT-CLASS-528-229	c 27	N83-34040 *	#	US-PATENT-CLASS-528-423	c 27	N81-17259 *	#
US-PATENT-CLASS-526-262	c 27	N84-22745 *	#	US-PATENT-CLASS-528-229	c 27	N85-21348 *	#	US-PATENT-CLASS-528-423	c 27	N84-22744 *	#
US-PATENT-CLASS-526-262	c 27	N84-27885 *	#	US-PATENT-CLASS-528-229	c 27	N85-21350 *	#	US-PATENT-CLASS-528-481	c 27	N80-24438 *	#
US-PATENT-CLASS-526-262	c 27	N85-21347 *	#	US-PATENT-CLASS-528-229	c 27	N85-21351 *	#	US-PATENT-CLASS-528-4	c 27	N81-27271 *	#
US-PATENT-CLASS-526-262	c 27	N85-21350 *	#	US-PATENT-CLASS-528-229	c 27	N85-21352 *	#	US-PATENT-CLASS-528-4	c 27	N82-18389 *	#
US-PATENT-CLASS-526-262	c 27	N85-21351 *	#	US-PATENT-CLASS-528-229	c 27	N85-34280 *	#	US-PATENT-CLASS-528-6	c 27	N81-27271 *	#
US-PATENT-CLASS-526-262	c 27	N85-21352 *	#	US-PATENT-CLASS-528-229	c 27	N85-34282 *	#	US-PATENT-CLASS-528-6	c 27	N82-18389 *	#
US-PATENT-CLASS-526-262	c 25	N85-28982 *	#	US-PATENT-CLASS-528-229	c 27	N86-19457 *	#	US-PATENT-CLASS-528-6	c 27	N84-22750 *	#
US-PATENT-CLASS-526-262	c 25	N85-30039 *	#	US-PATENT-CLASS-528-239	c 27	N85-20124 *	#	US-PATENT-CLASS-528-73	c 25	N80-16116 *	#
US-PATENT-CLASS-526-262	c 27	N86-20560 *	#	US-PATENT-CLASS-528-241	c 27	N85-20124 *	#	US-PATENT-CLASS-528-7	c 27	N82-18389 *	#
US-PATENT-CLASS-526-262	c 24	N86-21590 *	#	US-PATENT-CLASS-528-258	c 27	N85-20124 *	#	US-PATENT-CLASS-528-7	c 27	N84-22750 *	#
US-PATENT-CLASS-526-274	c 27	N85-21347 *	#	US-PATENT-CLASS-528-25	c 27	N84-22747 *	#	US-PATENT-CLASS-528-86	c 23	N85-28973 *	#
US-PATENT-CLASS-526-275	c 27	N78-32256 *	#	US-PATENT-CLASS-528-26	c 27	N84-22747 *	#	US-PATENT-CLASS-528-92	c 24	N84-34571 *	#
US-PATENT-CLASS-526-275	c 27	N80-24438 *	#	US-PATENT-CLASS-528-271	c 27	N84-27884 *	#	US-PATENT-CLASS-528-92	c 27	N85-34282 *	#
US-PATENT-CLASS-526-276	c 27	N78-32256 *	#	US-PATENT-CLASS-528-279	c 27	N85-20124 *	#	US-PATENT-CLASS-528-94	c 27	N85-34281 *	#
US-PATENT-CLASS-526-276	c 27	N80-24438 *	#	US-PATENT-CLASS-528-288	c 27	N85-29043 *	#	US-PATENT-CLASS-528-94	c 27	N86-19457 *	#
US-PATENT-CLASS-526-278	c 27	N78-32256 *	#	US-PATENT-CLASS-528-289	c 27	N85-29043 *	#	US-PATENT-CLASS-53-102	c 15	N71-21528 *	#
US-PATENT-CLASS-526-278	c 27	N80-24438 *	#	US-PATENT-CLASS-528-303	c 27	N85-29043 *	#	US-PATENT-CLASS-53-112A	c 15	N73-27405 *	#
US-PATENT-CLASS-526-27	c 27	N78-32256 *	#	US-PATENT-CLASS-528-304	c 27	N85-29043 *	#	US-PATENT-CLASS-53-22A	c 15	N73-27405 *	#
US-PATENT-CLASS-526-285	c 27	N83-34040 *	#	US-PATENT-CLASS-528-310	c 27	N81-17262 *	#	US-PATENT-CLASS-53-22	c 15	N71-23256 *	#
US-PATENT-CLASS-526-328	c 27	N85-29043 *	#	US-PATENT-CLASS-528-310	c 27	N81-24256 *	#	US-PATENT-CLASS-53-429	c 09	N82-29330 *	#
US-PATENT-CLASS-526-329.2	c 27	N85-29043 *	#	US-PATENT-CLASS-528-310	c 27	N82-24338 *	#	US-PATENT-CLASS-53-9	c 37	N77-23482 *	#
US-PATENT-CLASS-526-49	c 27	N78-32256 *	#	US-PATENT-CLASS-528-310	c 27	N84-27884 *	#	US-PATENT-CLASS-536-105	c 27	N77-30236 *	#
US-PATENT-CLASS-526-50	c 27	N78-32256 *	#	US-PATENT-CLASS-528-310	c 23	N86-19376 *	#	US-PATENT-CLASS-536-56	c 27	N77-30236 *	#
US-PATENT-CLASS-526-7	c 44	N79-25481 *	#	US-PATENT-CLASS-528-314	c 25	N85-30039 *	#	US-PATENT-CLASS-536-58	c 27	N77-30236 *	#
US-PATENT-CLASS-526-88	c 25	N81-19242 *	#	US-PATENT-CLASS-528-3							

US-PATENT-CLASS-548-413	c 23	N86-19376 *	US-PATENT-CLASS-568-445	c 23	N82-16174 *	US-PATENT-CLASS-60-25	c 15	N73-24513 *
US-PATENT-CLASS-548-415	c 27	N83-31854 *	US-PATENT-CLASS-568-497	c 23	N82-16174 *	US-PATENT-CLASS-60-25	c 37	N74-21060 *
US-PATENT-CLASS-548-415	c 27	N84-22745 *	US-PATENT-CLASS-568-4	c 27	N82-18389 *	US-PATENT-CLASS-60-260	c 28	N70-41992 *
US-PATENT-CLASS-549-335	c 23	N85-33187 *	US-PATENT-CLASS-568-4	c 27	N84-22750 *	US-PATENT-CLASS-60-260	c 28	N72-18766 *
US-PATENT-CLASS-55-DIG.25	c 35	N84-17555 *	US-PATENT-CLASS-568-5	c 27	N82-18389 *	US-PATENT-CLASS-60-261	c 37	N78-17384 *
US-PATENT-CLASS-55-DIG.30	c 35	N84-17555 *	US-PATENT-CLASS-568-5	c 27	N84-22750 *	US-PATENT-CLASS-60-262	c 37	N78-17384 *
US-PATENT-CLASS-55-DIG.35	c 34	N75-27761 *	US-PATENT-CLASS-568-852	c 27	N80-32514 *	US-PATENT-CLASS-60-262	c 07	N78-18067 *
US-PATENT-CLASS-55-DIG.42	c 37	N85-29283 *	US-PATENT-CLASS-568-861	c 27	N80-32514 *	US-PATENT-CLASS-60-262	c 07	N83-33884 *
US-PATENT-CLASS-55-100	c 35	N78-12390 *	US-PATENT-CLASS-57-906	c 37	N82-18601 *	US-PATENT-CLASS-60-263	c 28	N71-24321 *
US-PATENT-CLASS-55-101	c 25	N78-25148 *	US-PATENT-CLASS-570-123	c 25	N82-24312 *	US-PATENT-CLASS-60-263	c 07	N77-28118 *
US-PATENT-CLASS-55-101	c 25	N78-25148 *	US-PATENT-CLASS-570-129	c 25	N82-24312 *	US-PATENT-CLASS-60-264	c 07	N80-32392 *
US-PATENT-CLASS-55-105	c 35	N84-17555 *	US-PATENT-CLASS-58-24	c 10	N71-26326 *	US-PATENT-CLASS-60-265	c 28	N71-20942 *
US-PATENT-CLASS-55-118	c 35	N79-17192 *	US-PATENT-CLASS-585-24	c 27	N86-21675 *	US-PATENT-CLASS-60-265	c 33	N72-25911 *
US-PATENT-CLASS-55-122	c 35	N79-17192 *	US-PATENT-CLASS-60.39.08	c 37	N79-11403 *	US-PATENT-CLASS-60-265	c 33	N73-25952 *
US-PATENT-CLASS-55-126	c 35	N84-17555 *	US-PATENT-CLASS-60-108	c 33	N71-16104 *	US-PATENT-CLASS-60-265	c 20	N76-14191 *
US-PATENT-CLASS-55-127	c 35	N79-17192 *	US-PATENT-CLASS-60-1	c 15	N72-33477 *	US-PATENT-CLASS-60-266	c 33	N71-28852 *
US-PATENT-CLASS-55-12	c 35	N84-17555 *	US-PATENT-CLASS-60-1	c 15	N73-13467 *	US-PATENT-CLASS-60-266	c 28	N72-23810 *
US-PATENT-CLASS-55-131	c 35	N84-17555 *	US-PATENT-CLASS-60-200A	c 33	N72-25911 *	US-PATENT-CLASS-60-267	c 33	N71-29053 *
US-PATENT-CLASS-55-138	c 35	N84-17555 *	US-PATENT-CLASS-60-200A	c 33	N73-25952 *	US-PATENT-CLASS-60-267	c 33	N72-25911 *
US-PATENT-CLASS-55-139	c 35	N84-17555 *	US-PATENT-CLASS-60-200A	c 27	N78-17206 *	US-PATENT-CLASS-60-267	c 33	N73-25952 *
US-PATENT-CLASS-55-145	c 35	N84-17555 *	US-PATENT-CLASS-60-200R	c 20	N82-18314 *	US-PATENT-CLASS-60-267	c 28	N73-32606 *
US-PATENT-CLASS-55-15-8	c 52	N79-14749 *	US-PATENT-CLASS-60-200	c 28	N71-14044 *	US-PATENT-CLASS-60-267	c 20	N76-14191 *
US-PATENT-CLASS-55-155	c 35	N79-17192 *	US-PATENT-CLASS-60-202	c 28	N70-41922 *	US-PATENT-CLASS-60-267	c 34	N79-13288 *
US-PATENT-CLASS-55-158	c 18	N71-20742 *	US-PATENT-CLASS-60-202	c 28	N71-10574 *	US-PATENT-CLASS-60-267	c 34	N79-13289 *
US-PATENT-CLASS-55-158	c 44	N77-22607 *	US-PATENT-CLASS-60-202	c 25	N71-21694 *	US-PATENT-CLASS-60-267	c 34	N80-24573 *
US-PATENT-CLASS-55-158	c 25	N82-21269 *	US-PATENT-CLASS-60-202	c 28	N71-21822 *	US-PATENT-CLASS-60-267	c 44	N81-24519 *
US-PATENT-CLASS-55-159	c 34	N74-30608 *	US-PATENT-CLASS-60-202	c 28	N71-23081 *	US-PATENT-CLASS-60-267	c 05	N81-26114 *
US-PATENT-CLASS-55-159	c 37	N79-21345 *	US-PATENT-CLASS-60-202	c 28	N71-23293 *	US-PATENT-CLASS-60-269	c 07	N83-33884 *
US-PATENT-CLASS-55-15	c 71	N83-35781 *	US-PATENT-CLASS-60-202	c 28	N71-25213 *	US-PATENT-CLASS-60-26	c 21	N72-31637 *
US-PATENT-CLASS-55-15	c 71	N85-22104 *	US-PATENT-CLASS-60-202	c 28	N71-26173 *	US-PATENT-CLASS-60-26	c 03	N73-20040 *
US-PATENT-CLASS-55-160	c 15	N71-15968 *	US-PATENT-CLASS-60-202	c 28	N71-26642 *	US-PATENT-CLASS-60-271	c 28	N72-11708 *
US-PATENT-CLASS-55-16	c 06	N72-31140 *	US-PATENT-CLASS-60-202	c 28	N71-26781 *	US-PATENT-CLASS-60-271	c 28	N72-23810 *
US-PATENT-CLASS-55-179	c 14	N71-17588 *	US-PATENT-CLASS-60-202	c 28	N72-11709 *	US-PATENT-CLASS-60-271	c 07	N78-17055 *
US-PATENT-CLASS-55-179	c 54	N77-32722 *	US-PATENT-CLASS-60-202	c 28	N72-22770 *	US-PATENT-CLASS-60-271	c 37	N78-17384 *
US-PATENT-CLASS-55-194	c 35	N83-29652 *	US-PATENT-CLASS-60-202	c 28	N72-22771 *	US-PATENT-CLASS-60-271	c 07	N83-33884 *
US-PATENT-CLASS-55-197	c 23	N77-17161 *	US-PATENT-CLASS-60-202	c 28	N73-24783 *	US-PATENT-CLASS-60-275	c 35	N84-17555 *
US-PATENT-CLASS-55-199	c 34	N74-30608 *	US-PATENT-CLASS-60-202	c 25	N73-25760 *	US-PATENT-CLASS-60-291	c 31	N78-13898 *
US-PATENT-CLASS-55-202	c 35	N83-29652 *	US-PATENT-CLASS-60-202	c 28	N73-27699 *	US-PATENT-CLASS-60-300	c 28	N80-10374 *
US-PATENT-CLASS-55-204	c 15	N71-23023 *	US-PATENT-CLASS-60-202	c 20	N77-10148 *	US-PATENT-CLASS-60-303	c 35	N84-17555 *
US-PATENT-CLASS-55-204	c 44	N83-10501 *	US-PATENT-CLASS-60-202	c 20	N77-20162 *	US-PATENT-CLASS-60-303	c 37	N84-33808 *
US-PATENT-CLASS-55-208	c 14	N71-18483 *	US-PATENT-CLASS-60-202	c 20	N85-21256 *	US-PATENT-CLASS-60-311	c 35	N84-17555 *
US-PATENT-CLASS-55-241	c 35	N79-17192 *	US-PATENT-CLASS-60-203	c 20	N80-14188 *	US-PATENT-CLASS-60-316	c 34	N76-18364 *
US-PATENT-CLASS-55-242	c 35	N79-17192 *	US-PATENT-CLASS-60-204	c 07	N78-17055 *	US-PATENT-CLASS-60-35.3	c 28	N70-33265 *
US-PATENT-CLASS-55-26-9	c 35	N78-12390 *	US-PATENT-CLASS-60-204	c 07	N78-18067 *	US-PATENT-CLASS-60-35.3	c 28	N70-40367 *
US-PATENT-CLASS-55-261	c 35	N76-18401 *	US-PATENT-CLASS-60-204	c 44	N81-24519 *	US-PATENT-CLASS-60-35.54	c 28	N70-34294 *
US-PATENT-CLASS-55-269	c 54	N77-32722 *	US-PATENT-CLASS-60-211	c 28	N73-13773 *	US-PATENT-CLASS-60-35.54	c 28	N70-38645 *
US-PATENT-CLASS-55-270	c 35	N84-17555 *	US-PATENT-CLASS-60-214	c 15	N74-27360 *	US-PATENT-CLASS-60-35.54	c 28	N71-29153 *
US-PATENT-CLASS-55-277	c 71	N83-35781 *	US-PATENT-CLASS-60-215	c 06	N73-30097 *	US-PATENT-CLASS-60-35.55	c 28	N70-34162 *
US-PATENT-CLASS-55-277	c 71	N85-22104 *	US-PATENT-CLASS-60-215	c 15	N74-27360 *	US-PATENT-CLASS-60-35.55	c 28	N70-38711 *
US-PATENT-CLASS-55-283	c 35	N84-17555 *	US-PATENT-CLASS-60-217	c 12	N71-17631 *	US-PATENT-CLASS-60-35.55	c 21	N71-15682 *
US-PATENT-CLASS-55-291	c 35	N84-17555 *	US-PATENT-CLASS-60-225	c 28	N71-10780 *	US-PATENT-CLASS-60-35.55	c 15	N71-28951 *
US-PATENT-CLASS-55-2	c 25	N78-25148 *	US-PATENT-CLASS-60-226A	c 07	N77-17059 *	US-PATENT-CLASS-60-35.5	c 28	N70-33356 *
US-PATENT-CLASS-55-2	c 28	N81-14103 *	US-PATENT-CLASS-60-226A	c 07	N79-14096 *	US-PATENT-CLASS-60-35.5	c 28	N70-34175 *
US-PATENT-CLASS-55-2	c 35	N84-17555 *	US-PATENT-CLASS-60-226A	c 07	N79-14097 *	US-PATENT-CLASS-60-35.5	c 28	N70-36802 *
US-PATENT-CLASS-55-306	c 28	N70-34788 *	US-PATENT-CLASS-60-226A	c 07	N82-26293 *	US-PATENT-CLASS-60-35.5	c 21	N70-36938 *
US-PATENT-CLASS-55-35	c 05	N70-41297 *	US-PATENT-CLASS-60-226R	c 07	N78-18066 *	US-PATENT-CLASS-60-35.5	c 25	N70-36946 *
US-PATENT-CLASS-55-360	c 35	N79-17192 *	US-PATENT-CLASS-60-226R	c 07	N77-14025 *	US-PATENT-CLASS-60-35.5	c 28	N70-37245 *
US-PATENT-CLASS-55-386	c 35	N75-26334 *	US-PATENT-CLASS-60-226R	c 07	N77-28118 *	US-PATENT-CLASS-60-35.5	c 28	N70-37980 *
US-PATENT-CLASS-55-38	c 71	N83-35781 *	US-PATENT-CLASS-60-226R	c 07	N78-17055 *	US-PATENT-CLASS-60-35.5	c 28	N71-14043 *
US-PATENT-CLASS-55-3	c 35	N78-12390 *	US-PATENT-CLASS-60-226R	c 07	N78-17056 *	US-PATENT-CLASS-60-35.5	c 28	N71-15661 *
US-PATENT-CLASS-55-400	c 11	N71-10777 *	US-PATENT-CLASS-60-226R	c 07	N78-25089 *	US-PATENT-CLASS-60-35.60	c 28	N71-15659 *
US-PATENT-CLASS-55-407	c 35	N79-17192 *	US-PATENT-CLASS-60-226R	c 07	N79-14096 *	US-PATENT-CLASS-60-35.6	c 28	N70-33284 *
US-PATENT-CLASS-55-408	c 15	N70-40062 *	US-PATENT-CLASS-60-226R	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-33331 *
US-PATENT-CLASS-55-418	c 15	N71-22721 *	US-PATENT-CLASS-60-228	c 07	N77-17059 *	US-PATENT-CLASS-60-35.6	c 28	N70-33374 *
US-PATENT-CLASS-55-43	c 34	N74-30608 *	US-PATENT-CLASS-60-230	c 07	N78-27121 *	US-PATENT-CLASS-60-35.6	c 28	N70-33375 *
US-PATENT-CLASS-55-446	c 15	N72-22489 *	US-PATENT-CLASS-60-236	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-34860 *
US-PATENT-CLASS-55-464	c 15	N72-22489 *	US-PATENT-CLASS-60-238	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-35381 *
US-PATENT-CLASS-55-466	c 35	N84-17555 *	US-PATENT-CLASS-60-239	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 27	N70-35534 *
US-PATENT-CLASS-55-493	c 14	N72-23457 *	US-PATENT-CLASS-60-23	c 09	N71-26182 *	US-PATENT-CLASS-60-35.6	c 15	N70-36535 *
US-PATENT-CLASS-55-498	c 14	N72-23457 *	US-PATENT-CLASS-60-23	c 15	N72-12409 *	US-PATENT-CLASS-60-35.6	c 28	N70-36806 *
US-PATENT-CLASS-55-502	c 14	N72-23457 *	US-PATENT-CLASS-60-23	c 21	N72-31637 *	US-PATENT-CLASS-60-35.6	c 28	N70-36910 *
US-PATENT-CLASS-55-510	c 25	N74-12813 *	US-PATENT-CLASS-60-23	c 15	N73-13467 *	US-PATENT-CLASS-60-35.6	c 28	N70-38249 *
US-PATENT-CLASS-55-518	c 25	N74-12813 *	US-PATENT-CLASS-60-240	c 28	N71-24736 *	US-PATENT-CLASS-60-35.6	c 28	N70-38504 *
US-PATENT-CLASS-55-521	c 14	N72-23457 *	US-PATENT-CLASS-60-240	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-38505 *
US-PATENT-CLASS-55-523	c 34	N76-27515 *	US-PATENT-CLASS-60-240	c 07	N80-18039 *	US-PATENT-CLASS-60-35.6	c 28	N70-38710 *
US-PATENT-CLASS-55-526	c 34	N76-27515 *	US-PATENT-CLASS-60-243	c 33	N71-21507 *	US-PATENT-CLASS-60-35.6	c 28	N70-39899 *
US-PATENT-CLASS-55-52	c 71	N83-35781 *	US-PATENT-CLASS-60-243	c 15	N71-27432 *	US-PATENT-CLASS-60-35.6	c 33	N71-15623 *
US-PATENT-CLASS-55-55	c 06	N72-31140 *	US-PATENT-CLASS-60-243	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 27	N71-15634 *
US-PATENT-CLASS-55-66	c 25	N80-23383 *	US-PATENT-CLASS-60-243	c 20	N79-21124 *	US-PATENT-CLASS-60-35.6	c 31	N71-15637 *
US-PATENT-CLASS-55-67	c 23	N77-17161 *	US-PATENT-CLASS-60-251	c 28	N70-41311 *	US-PATENT-CLASS-60-35.6	c 31	N71-15647 *
US-PATENT-CLASS-55-67	c 25	N80-23383 *	US-PATENT-CLASS-60-251	c 27	N71-21819 *	US-PATENT-CLASS-60-35.6	c 28	N71-15660 *
US-PATENT-CLASS-55-68	c 25	N80-23383 *	US-PATENT-CLASS-60-254	c 28	N72-20758 *	US-PATENT-CLASS-60-35.6	c 14	N71-27186 *
US-PATENT-CLASS-55-6	c 35	N84-17555 *	US-PATENT-CLASS-60-254	c 28	N73-24784 *	US-PATENT-CLASS-60-36	c 15	N72-33477 *
US-PATENT-CLASS-55-72	c 25	N80-23383 *	US-PATENT-CLASS-60-256	c 28	N73-24784 *	US-PATENT-CLASS-60-37	c 15	N73-13467 *
US-PATENT-CLASS-55-73	c 45	N79-12584 *	US-PATENT-CLASS-60-257	c 31	N70-41948 *	US-PATENT-CLASS-60-39.02	c 07	N86-20389 *
US-PATENT-CLASS-55-74	c 23	N77-17161 *	US-PATENT-CLASS-60-258	c 15	N70-22192 *	US-PATENT-CLASS-60-39.03	c 07	N72-31016 *
US-PATENT-CLASS-55-75	c 15	N71-26185 *	US-PATENT-CLASS-60-258	c 28	N71-22983 *	US-PATENT-CLASS-60-39.03	c 07	N80-18039 *
US-PATENT-CLASS-55-96	c 35	N84-17555 *	US-PATENT-CLASS-60-258	c 28	N71-28849 *	US-PATENT-CLASS-60-39.06	c 07	N80-26298 *
US-PATENT-CLASS-556-410	c 25	N85-21280 *	US-PATENT-CLASS-60-258	c 28	N72-17843 *	US-PATENT-CLASS-60-39.06	c 07	N81-29129 *
US-PATENT-CLASS-556-436	c 27	N86-21675 *	US-PATENT-CLASS-60-258	c 15	N72-25455 *	US-PATENT-CLASS-60-39.07	c 44	N78-32539 *
US-PATENT-CLASS-564-113	c 23	N86-19376 *	US-PATENT-CLASS-60-258	c 20	N74-13502 *	US-PATENT-CLASS-60-39.07	c 07	N82-32366 *
US-PATENT-CLASS-564-229	c 27	N81-24256 *	US-PATENT-CLASS-60-259	c 28	N70-41275 *	US-PATENT-CLASS-60-39.07	c 07	N83-36029 *
US-PATENT-CLASS-564-229	c 23	N82-28353 *	US-PATENT-CLASS-60-259	c 20	N74-13502 *	US-PATENT-CLASS-60-39.14	c 44	N78-32539 *
US-PATENT-CLASS-564-243	c 27	N84-22744 *	US-PATENT-CLASS-60-259	c 34	N77-30399 *	US-PATENT-CLASS-60-39.14	c 07	N79-10057 *
US-PATENT-CLASS-564-243	c 23	N86-21582 *	US-PATENT-CLASS-60-259	c 20	N80-14188 *	US-PATENT-CLASS-60-39.23	c 20	N76-14190 *
US-PATENT-CLASS-568-2	c 27	N82-18389 *	US-PATENT-CLASS-60-259	c 05	N81-26114 *	US-PATENT-CLASS-60-39.23	c 07	N85-35195 *

US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-737	c 07	N81-29129 *	US-PATENT-CLASS-62-55	c 15	N70-38020 *
US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-746	c 07	N80-26298 *	US-PATENT-CLASS-62-55	c 34	N77-30399 *
US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-748	c 07	N85-35195 *	US-PATENT-CLASS-62-56	c 05	N72-11084 *
US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-757	c 07	N84-24577 *	US-PATENT-CLASS-62-62	c 34	N83-34221 *
US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-836	c 24	N78-14096 *	US-PATENT-CLASS-62-6	c 15	N69-23190 *
US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-97	c 03	N71-12260 *	US-PATENT-CLASS-62-6	c 23	N71-15467 *
US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *	US-PATENT-CLASS-60-114	c 52	N83-27577 *	US-PATENT-CLASS-62-6	c 15	N71-23025 *
US-PATENT-CLASS-60-39.29	c 20	N76-14190 *	US-PATENT-CLASS-60-151	c 52	N83-27577 *	US-PATENT-CLASS-62-6	c 23	N72-25619 *
US-PATENT-CLASS-60-39.29	c 35	N76-14431 *	US-PATENT-CLASS-60-280	c 52	N83-21785 *	US-PATENT-CLASS-62-6	c 37	N76-29590 *
US-PATENT-CLASS-60-39.29	c 07	N82-32366 *	US-PATENT-CLASS-60-368	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 44	N76-29701 *
US-PATENT-CLASS-60-39.29	c 07	N84-33410 *	US-PATENT-CLASS-60-378	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 44	N83-28574 *
US-PATENT-CLASS-60-39.31	c 07	N78-18066 *	US-PATENT-CLASS-60-396	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 31	N85-21404 *
US-PATENT-CLASS-60-39.31	c 07	N79-14096 *	US-PATENT-CLASS-60-48	c 52	N83-21785 *	US-PATENT-CLASS-62-78	c 51	N79-10694 *
US-PATENT-CLASS-60-39.33	c 44	N78-32539 *	US-PATENT-CLASS-61-83	c 18	N74-22136 *	US-PATENT-CLASS-62-7	c 15	N73-12486 *
US-PATENT-CLASS-60-39.36	c 28	N71-20330 *	US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *	US-PATENT-CLASS-62-80	c 23	N72-25619 *
US-PATENT-CLASS-60-39.36	c 28	N71-28915 *	US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *	US-PATENT-CLASS-62-85	c 23	N72-25619 *
US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *	US-PATENT-CLASS-62-100	c 34	N77-19353 *	US-PATENT-CLASS-62-89	c 05	N73-26071 *
US-PATENT-CLASS-60-39.46	c 27	N71-15635 *	US-PATENT-CLASS-62-100	c 28	N78-24365 *	US-PATENT-CLASS-62-93	c 15	N69-21465 *
US-PATENT-CLASS-60-39.46	c 15	N74-27360 *	US-PATENT-CLASS-62-121	c 34	N77-19353 *	US-PATENT-CLASS-62-93	c 03	N72-28025 *
US-PATENT-CLASS-60-39.47	c 27	N71-16392 *	US-PATENT-CLASS-62-128	c 35	N84-28018 *	US-PATENT-CLASS-62-93	c 77	N75-20139 *
US-PATENT-CLASS-60-39.48	c 28	N70-38199 *	US-PATENT-CLASS-62-129	c 31	N76-14284 *	US-PATENT-CLASS-62-93	c 15	N71-28467 *
US-PATENT-CLASS-60-39.48	c 28	N70-39931 *	US-PATENT-CLASS-62-12	c 28	N81-14103 *	US-PATENT-CLASS-64-27	c 15	N71-28959 *
US-PATENT-CLASS-60-39.48	c 27	N71-28929 *	US-PATENT-CLASS-62-148	c 44	N82-26776 *	US-PATENT-CLASS-64-28	c 15	N69-27505 *
US-PATENT-CLASS-60-39.51R	c 25	N78-10224 *	US-PATENT-CLASS-62-15	c 06	N70-34946 *	US-PATENT-CLASS-65-DIG.11	c 37	N74-21063 *
US-PATENT-CLASS-60-39.52	c 07	N78-25089 *	US-PATENT-CLASS-62-176	c 05	N73-26071 *	US-PATENT-CLASS-65-DIG.4	c 71	N78-10837 *
US-PATENT-CLASS-60-39.65	c 28	N71-28915 *	US-PATENT-CLASS-62-18	c 28	N81-14103 *	US-PATENT-CLASS-65-DIG.7	c 71	N78-10837 *
US-PATENT-CLASS-60-39.65	c 23	N73-30665 *	US-PATENT-CLASS-62-207	c 05	N73-26071 *	US-PATENT-CLASS-65-102	c 71	N78-10837 *
US-PATENT-CLASS-60-39.65	c 34	N78-27357 *	US-PATENT-CLASS-62-209	c 05	N73-26071 *	US-PATENT-CLASS-65-108	c 35	N77-24455 *
US-PATENT-CLASS-60-39.66	c 15	N70-36411 *	US-PATENT-CLASS-62-217	c 31	N77-10229 *	US-PATENT-CLASS-65-11.1	c 31	N86-21718 *
US-PATENT-CLASS-60-39.66	c 23	N73-30665 *	US-PATENT-CLASS-62-235.1	c 44	N82-26776 *	US-PATENT-CLASS-65-12	c 31	N86-21718 *
US-PATENT-CLASS-60-39.66	c 07	N77-23106 *	US-PATENT-CLASS-62-238.3	c 44	N82-26776 *	US-PATENT-CLASS-65-134	c 71	N83-35781 *
US-PATENT-CLASS-60-39.66	c 37	N78-10467 *	US-PATENT-CLASS-62-239	c 44	N82-26776 *	US-PATENT-CLASS-65-142	c 31	N81-33319 *
US-PATENT-CLASS-60-39.66	c 37	N79-11403 *	US-PATENT-CLASS-62-244	c 44	N82-26776 *	US-PATENT-CLASS-65-142	c 27	N82-28442 *
US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *	US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-65-142	c 31	N83-31896 *
US-PATENT-CLASS-60-39.72	c 23	N73-30665 *	US-PATENT-CLASS-62-259	c 05	N73-26071 *	US-PATENT-CLASS-65-142	c 31	N83-35176 *
US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *	US-PATENT-CLASS-62-259	c 54	N78-32721 *	US-PATENT-CLASS-65-142	c 71	N84-28568 *
US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *	US-PATENT-CLASS-62-264	c 34	N84-22903 *	US-PATENT-CLASS-65-160	c 71	N84-28568 *
US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *	US-PATENT-CLASS-62-268	c 14	N71-20427 *	US-PATENT-CLASS-65-1	c 31	N86-21718 *
US-PATENT-CLASS-60-39.74	c 28	N70-33241 *	US-PATENT-CLASS-62-268	c 34	N79-20336 *	US-PATENT-CLASS-65-21.3	c 31	N83-35176 *
US-PATENT-CLASS-60-39.74	c 28	N72-17843 *	US-PATENT-CLASS-62-269	c 34	N77-19353 *	US-PATENT-CLASS-65-21.3	c 71	N84-28568 *
US-PATENT-CLASS-60-39.74	c 20	N79-21125 *	US-PATENT-CLASS-62-285	c 77	N75-20139 *	US-PATENT-CLASS-65-21.4	c 31	N81-33319 *
US-PATENT-CLASS-60-39.82E	c 20	N78-24275 *	US-PATENT-CLASS-62-288	c 77	N75-20139 *	US-PATENT-CLASS-65-21.4	c 27	N82-28442 *
US-PATENT-CLASS-60-39.83	c 07	N84-33410 *	US-PATENT-CLASS-62-289	c 77	N75-20139 *	US-PATENT-CLASS-65-21.4	c 31	N83-35176 *
US-PATENT-CLASS-60-39.48	c 28	N72-11709 *	US-PATENT-CLASS-62-290	c 77	N75-20139 *	US-PATENT-CLASS-65-21.4	c 71	N84-28568 *
US-PATENT-CLASS-60-508	c 44	N79-18443 *	US-PATENT-CLASS-62-295	c 35	N83-32026 *	US-PATENT-CLASS-65-213	c 71	N84-16940 *
US-PATENT-CLASS-60-516	c 20	N75-24837 *	US-PATENT-CLASS-62-2	c 15	N71-15906 *	US-PATENT-CLASS-65-214	c 31	N83-31896 *
US-PATENT-CLASS-60-516	c 44	N82-24640 *	US-PATENT-CLASS-62-315	c 34	N77-19353 *	US-PATENT-CLASS-65-22	c 31	N81-33319 *
US-PATENT-CLASS-60-517	c 44	N76-29701 *	US-PATENT-CLASS-62-317	c 77	N75-20139 *	US-PATENT-CLASS-65-22	c 27	N82-28442 *
US-PATENT-CLASS-60-517	c 37	N81-25370 *	US-PATENT-CLASS-62-376	c 31	N78-17237 *	US-PATENT-CLASS-65-22	c 31	N83-31896 *
US-PATENT-CLASS-60-518	c 37	N81-14318 *	US-PATENT-CLASS-62-376	c 34	N79-20336 *	US-PATENT-CLASS-65-22	c 31	N83-35176 *
US-PATENT-CLASS-60-518	c 37	N71-17432 *	US-PATENT-CLASS-62-383	c 33	N82-24419 *	US-PATENT-CLASS-65-2	c 71	N78-10837 *
US-PATENT-CLASS-60-51	c 15	N71-27754 *	US-PATENT-CLASS-62-384	c 23	N71-24725 *	US-PATENT-CLASS-65-2	c 31	N86-21718 *
US-PATENT-CLASS-60-520	c 37	N80-31790 *	US-PATENT-CLASS-62-3	c 20	N75-24837 *	US-PATENT-CLASS-65-30R	c 27	N78-32260 *
US-PATENT-CLASS-60-524	c 44	N81-17358 *	US-PATENT-CLASS-62-3	c 34	N78-17335 *	US-PATENT-CLASS-65-32	c 71	N78-10837 *
US-PATENT-CLASS-60-525	c 37	N81-25370 *	US-PATENT-CLASS-62-3	c 34	N83-29625 *	US-PATENT-CLASS-65-3	c 37	N75-26371 *
US-PATENT-CLASS-60-527	c 44	N74-33379 *	US-PATENT-CLASS-62-3	c 31	N85-29082 *	US-PATENT-CLASS-65-48	c 71	N78-10837 *
US-PATENT-CLASS-60-527	c 37	N77-12402 *	US-PATENT-CLASS-62-40	c 15	N71-24044 *	US-PATENT-CLASS-65-43	c 37	N75-15992 *
US-PATENT-CLASS-60-527	c 37	N77-19458 *	US-PATENT-CLASS-62-40	c 28	N81-14103 *	US-PATENT-CLASS-65-43	c 24	N79-25143 *
US-PATENT-CLASS-60-527	c 37	N78-31426 *	US-PATENT-CLASS-62-45	c 15	N70-33223 *	US-PATENT-CLASS-65-59A	c 35	N77-24455 *
US-PATENT-CLASS-60-527	c 37	N86-19604 *	US-PATENT-CLASS-62-45	c 31	N70-41871 *	US-PATENT-CLASS-65-60D	c 27	N78-32260 *
US-PATENT-CLASS-60-528	c 37	N86-19604 *	US-PATENT-CLASS-62-45	c 33	N71-25351 *	US-PATENT-CLASS-65-61	c 74	N80-24149 *
US-PATENT-CLASS-60-530	c 20	N75-24837 *	US-PATENT-CLASS-62-45	c 33	N71-28892 *	US-PATENT-CLASS-65-7	c 18	N71-23088 *
US-PATENT-CLASS-60-53	c 37	N77-22479 *	US-PATENT-CLASS-62-45	c 15	N73-12486 *	US-PATENT-CLASS-65-87	c 71	N78-10837 *
US-PATENT-CLASS-60-54.5	c 15	N71-10658 *	US-PATENT-CLASS-62-45	c 35	N74-15093 *	US-PATENT-CLASS-65-84	c 35	N77-24455 *
US-PATENT-CLASS-60-560	c 35	N78-10428 *	US-PATENT-CLASS-62-467R	c 34	N84-22903 *	US-PATENT-CLASS-65-84	c 35	N77-24455 *
US-PATENT-CLASS-60-572	c 44	N79-18443 *	US-PATENT-CLASS-62-467	c 33	N70-37979 *	US-PATENT-CLASS-70-58	c 33	N81-25299 *
US-PATENT-CLASS-60-574	c 35	N78-10428 *	US-PATENT-CLASS-62-467	c 33	N71-17897 *	US-PATENT-CLASS-71-98	c 51	N83-17045 *
US-PATENT-CLASS-60-606	c 28	N80-10374 *	US-PATENT-CLASS-62-467	c 05	N72-11084 *	US-PATENT-CLASS-72-253	c 15	N71-22797 *
US-PATENT-CLASS-60-606	c 37	N84-33808 *	US-PATENT-CLASS-62-467	c 33	N72-25911 *	US-PATENT-CLASS-72-258	c 15	N73-13464 *
US-PATENT-CLASS-60-632	c 20	N80-18097 *	US-PATENT-CLASS-62-467	c 33	N73-25952 *	US-PATENT-CLASS-72-307	c 15	N72-12408 *
US-PATENT-CLASS-60-641.12	c 44	N84-23018 *	US-PATENT-CLASS-62-467	c 20	N75-24837 *	US-PATENT-CLASS-72-324	c 71	N86-21276 *
US-PATENT-CLASS-60-641.14	c 44	N82-24640 *	US-PATENT-CLASS-62-475	c 23	N72-25619 *	US-PATENT-CLASS-72-341	c 71	N86-21276 *
US-PATENT-CLASS-60-641	c 44	N75-32581 *	US-PATENT-CLASS-62-476	c 44	N82-26776 *	US-PATENT-CLASS-72-34	c 15	N71-21536 *
US-PATENT-CLASS-60-641	c 44	N77-32582 *	US-PATENT-CLASS-62-47	c 28	N81-14103 *	US-PATENT-CLASS-72-354	c 15	N71-23811 *
US-PATENT-CLASS-60-641	c 44	N78-17480 *	US-PATENT-CLASS-62-48	c 28	N78-24365 *	US-PATENT-CLASS-72-363	c 37	N76-14461 *
US-PATENT-CLASS-60-641	c 44	N78-32542 *	US-PATENT-CLASS-62-48	c 31	N83-31897 *	US-PATENT-CLASS-72-364	c 15	N71-18579 *
US-PATENT-CLASS-60-641	c 44	N79-18443 *	US-PATENT-CLASS-62-49	c 31	N76-14284 *	US-PATENT-CLASS-72-369	c 15	N71-24679 *
US-PATENT-CLASS-60-641	c 44	N81-17518 *	US-PATENT-CLASS-62-4	c 44	N77-32581 *	US-PATENT-CLASS-72-436	c 37	N79-28550 *
US-PATENT-CLASS-60-645	c 34	N79-20335 *	US-PATENT-CLASS-62-4	c 44	N78-17460 *	US-PATENT-CLASS-72-447	c 15	N73-13463 *
US-PATENT-CLASS-60-649	c 34	N79-20335 *	US-PATENT-CLASS-62-50	c 15	N70-34247 *	US-PATENT-CLASS-72-451	c 37	N79-28550 *
US-PATENT-CLASS-60-659	c 44	N75-32581 *	US-PATENT-CLASS-62-50	c 35	N78-12390 *	US-PATENT-CLASS-72-453	c 37	N76-18454 *
US-PATENT-CLASS-60-659	c 44	N76-31667 *	US-PATENT-CLASS-62-514 R	c 35	N83-32026 *	US-PATENT-CLASS-72-467	c 15	N71-23817 *
US-PATENT-CLASS-60-671	c 44	N78-32542 *	US-PATENT-CLASS-62-514JT	c 31	N77-10229 *	US-PATENT-CLASS-72-46	c 24	N75-33181 *
US-PATENT-CLASS-60-698	c 44	N84-23018 *	US-PATENT-CLASS-62-514R	c 35	N78-12390 *	US-PATENT-CLASS-72-470	c 37	N79-28550 *
US-PATENT-CLASS-60-716	c 44	N84-23018 *	US-PATENT-CLASS-62-514R	c 31	N78-17237 *	US-PATENT-CLASS-72-476	c 15	N73-13463 *
US-PATENT-CLASS-60-721	c 71	N79-20827 *	US-PATENT-CLASS-62-514R	c 31	N78-25256 *	US-PATENT-CLASS-72-53	c 15	N71-18616 *
US-PATENT-CLASS-60-721	c 71	N83-32515 *	US-PATENT-CLASS-62-514R	c 51	N79-10894 *	US-PATENT-CLASS-72-53	c 15	N73-32360 *
US-PATENT-CLASS-60-721	c 71	N83-32516 *	US-PATENT-CLASS-62-514R	c 31	N79-17029 *	US-PATENT-CLASS-72-54	c 37	N76-14461 *
US-PATENT-CLASS-60-721	c 71	N84-32323 *	US-PATENT-CLASS-62-514R	c 34	N79-20336 *	US-PATENT-CLASS-72-56	c 15	N70-34249 *
US-PATENT-CLASS-60-726	c 07	N81-29129 *	US-PATENT-CLASS-62-514R	c 35	N81-14287 *	US-PATENT-CLASS-72-56	c 15	N71-24833 *
US-PATENT-CLASS-60-726	c 07	N82-32366 *	US-PATENT-CLASS-62-514R	c 31	N83-31897 *	US-PATENT-CLASS-72-56	c 15	N71-24865 *
US-PATENT-CLASS-60-730	c 05	N81-26114 *	US-PATENT-CLASS-62-514R	c 34	N83-34221 *	US-PATENT-CLASS-72-56	c 15	N71-26148 *
US-PATENT-CLASS-60-730	c 37	N84-22958 *	US-PATENT-CLASS-62-514	c 23	N71-26654 *	US-PATENT-CLASS-72-60	c 15	N71-24836 *
US-PATENT-CLASS-60-733	c 07	N80-26298 *	US-PATENT-CLASS-62-51	c 15	N72-17453 *	US-PATENT-CLASS-72-61	c 15	N71-26346 *
US-PATENT-CLASS-60-736	c 37	N84-22958 *	US-PATENT-CLASS-62-55.5	c 11	N71-24964 *	US-PATENT-CLASS-72-63	c 20	N75-18310 *
US-PATENT-CLASS-60-736	c 07	N86-20389 *	US-PATENT-CLASS-62-55.5	c 15	N72-22484 *	US-PATENT-CLASS-72-63	c 37	N76-14461 *

US-PATENT-CLASS-72-83	c 15	N71-22723 *	US-PATENT-CLASS-73-147	c 09	N77-10071 *	US-PATENT-CLASS-73-190	c 33	N71-23085 *
US-PATENT-CLASS-73-DIG.11	c 35	N78-18390 *	US-PATENT-CLASS-73-147	c 09	N78-31129 *	US-PATENT-CLASS-73-190	c 33	N71-29051 *
US-PATENT-CLASS-73-1-DV	c 71	N86-21276 *	US-PATENT-CLASS-73-147	c 35	N79-14347 *	US-PATENT-CLASS-73-194A	c 14	N72-17329 *
US-PATENT-CLASS-73-18	c 35	N76-24523 *	US-PATENT-CLASS-73-147	c 09	N79-21083 *	US-PATENT-CLASS-73-194EM	c 14	N73-32326 *
US-PATENT-CLASS-73-18	c 35	N84-28019 *	US-PATENT-CLASS-73-147	c 02	N80-20224 *	US-PATENT-CLASS-73-194EM	c 35	N74-21018 *
US-PATENT-CLASS-73-1DV	c 14	N73-27379 *	US-PATENT-CLASS-73-147	c 06	N81-17057 *	US-PATENT-CLASS-73-194E	c 14	N73-20478 *
US-PATENT-CLASS-73-1F	c 35	N74-21019 *	US-PATENT-CLASS-73-147	c 09	N82-11088 *	US-PATENT-CLASS-73-194E	c 05	N73-32015 *
US-PATENT-CLASS-73-1R	c 14	N71-29134 *	US-PATENT-CLASS-73-147	c 09	N82-23254 *	US-PATENT-CLASS-73-194F	c 14	N72-11365 *
US-PATENT-CLASS-73-1R	c 35	N75-15932 *	US-PATENT-CLASS-73-147	c 71	N83-17235 *	US-PATENT-CLASS-73-194M	c 05	N73-32015 *
US-PATENT-CLASS-73-1R	c 35	N76-15432 *	US-PATENT-CLASS-73-147	c 44	N83-21503 *	US-PATENT-CLASS-73-194M	c 35	N75-30503 *
US-PATENT-CLASS-73-100	c 15	N70-41993 *	US-PATENT-CLASS-73-147	c 44	N83-21504 *	US-PATENT-CLASS-73-194R	c 34	N76-27517 *
US-PATENT-CLASS-73-100	c 32	N72-25877 *	US-PATENT-CLASS-73-147	c 74	N83-21949 *	US-PATENT-CLASS-73-194VS	c 34	N79-12359 *
US-PATENT-CLASS-73-103	c 15	N71-17696 *	US-PATENT-CLASS-73-147	c 35	N84-22934 *	US-PATENT-CLASS-73-194	c 14	N70-41994 *
US-PATENT-CLASS-73-103	c 14	N72-27412 *	US-PATENT-CLASS-73-147	c 09	N84-34448 *	US-PATENT-CLASS-73-194	c 14	N71-23226 *
US-PATENT-CLASS-73-103	c 14	N73-32323 *	US-PATENT-CLASS-73-147	c 09	N85-21178 *	US-PATENT-CLASS-73-194	c 12	N71-25546 *
US-PATENT-CLASS-73-103	c 35	N76-18400 *	US-PATENT-CLASS-73-149	c 14	N72-11363 *	US-PATENT-CLASS-73-195	c 35	N75-30503 *
US-PATENT-CLASS-73-104	c 35	N74-32879 *	US-PATENT-CLASS-73-149	c 52	N74-10975 *	US-PATENT-CLASS-73-198	c 14	N69-24257 *
US-PATENT-CLASS-73-105	c 14	N70-34161 *	US-PATENT-CLASS-73-15.4	c 14	N71-17659 *	US-PATENT-CLASS-73-198	c 14	N72-17327 *
US-PATENT-CLASS-73-105	c 14	N71-17586 *	US-PATENT-CLASS-73-15.4	c 35	N74-32879 *	US-PATENT-CLASS-73-1	c 10	N71-13545 *
US-PATENT-CLASS-73-115	c 35	N79-14345 *	US-PATENT-CLASS-73-15.6	c 14	N70-35368 *	US-PATENT-CLASS-73-1	c 09	N71-22988 *
US-PATENT-CLASS-73-115	c 07	N84-22559 *	US-PATENT-CLASS-73-15.6	c 14	N71-24234 *	US-PATENT-CLASS-73-204	c 12	N71-17569 *
US-PATENT-CLASS-73-116	c 11	N70-33278 *	US-PATENT-CLASS-73-15.6	c 14	N71-26136 *	US-PATENT-CLASS-73-204	c 35	N76-24524 *
US-PATENT-CLASS-73-116	c 11	N70-34844 *	US-PATENT-CLASS-73-15.6	c 32	N72-25877 *	US-PATENT-CLASS-73-204	c 35	N77-20400 *
US-PATENT-CLASS-73-116	c 14	N70-40203 *	US-PATENT-CLASS-73-15.6	c 09	N74-19528 *	US-PATENT-CLASS-73-204	c 52	N83-27577 *
US-PATENT-CLASS-73-116	c 11	N70-41677 *	US-PATENT-CLASS-73-15.6	c 35	N76-24523 *	US-PATENT-CLASS-73-205L	c 02	N80-20224 *
US-PATENT-CLASS-73-116	c 11	N71-10604 *	US-PATENT-CLASS-73-15.6	c 35	N77-22450 *	US-PATENT-CLASS-73-212	c 14	N70-36824 *
US-PATENT-CLASS-73-116	c 31	N71-15643 *	US-PATENT-CLASS-73-15.6	c 39	N78-10493 *	US-PATENT-CLASS-73-212	c 14	N73-13415 *
US-PATENT-CLASS-73-117.1	c 11	N72-27262 *	US-PATENT-CLASS-73-15R	c 33	N72-25913 *	US-PATENT-CLASS-73-212	c 35	N76-14429 *
US-PATENT-CLASS-73-117.1	c 09	N84-27749 *	US-PATENT-CLASS-73-15R	c 14	N73-28486 *	US-PATENT-CLASS-73-212	c 06	N80-18036 *
US-PATENT-CLASS-73-117.4	c 14	N71-20429 *	US-PATENT-CLASS-73-15R	c 25	N74-18551 *	US-PATENT-CLASS-73-221	c 35	N75-19611 *
US-PATENT-CLASS-73-117.4	c 28	N71-27094 *	US-PATENT-CLASS-73-15R	c 31	N74-27900 *	US-PATENT-CLASS-73-228	c 34	N77-27345 *
US-PATENT-CLASS-73-117.4	c 35	N75-29382 *	US-PATENT-CLASS-73-15R	c 09	N77-27131 *	US-PATENT-CLASS-73-23.1	c 06	N69-39936 *
US-PATENT-CLASS-73-117	c 14	N71-22965 *	US-PATENT-CLASS-73-15R	c 74	N81-17887 *	US-PATENT-CLASS-73-23.1	c 06	N72-17094 *
US-PATENT-CLASS-73-12	c 14	N71-23225 *	US-PATENT-CLASS-73-150-A	c 39	N86-20841 *	US-PATENT-CLASS-73-23.1	c 06	N72-25146 *
US-PATENT-CLASS-73-12	c 14	N71-26161 *	US-PATENT-CLASS-73-150R	c 35	N84-28018 *	US-PATENT-CLASS-73-23.1	c 25	N76-18245 *
US-PATENT-CLASS-73-12	c 14	N72-16282 *	US-PATENT-CLASS-73-155	c 46	N80-10709 *	US-PATENT-CLASS-73-23.1	c 23	N77-17161 *
US-PATENT-CLASS-73-12	c 14	N72-25411 *	US-PATENT-CLASS-73-155	c 46	N80-24906 *	US-PATENT-CLASS-73-23	c 14	N71-10774 *
US-PATENT-CLASS-73-12	c 14	N73-32327 *	US-PATENT-CLASS-73-159	c 31	N79-11246 *	US-PATENT-CLASS-73-23	c 05	N71-11202 *
US-PATENT-CLASS-73-12	c 35	N74-21062 *	US-PATENT-CLASS-73-15	c 14	N70-34156 *	US-PATENT-CLASS-73-23	c 52	N74-20728 *
US-PATENT-CLASS-73-12	c 35	N75-33367 *	US-PATENT-CLASS-73-15	c 14	N71-15992 *	US-PATENT-CLASS-73-23	c 35	N75-29380 *
US-PATENT-CLASS-73-12	c 75	N76-14931 *	US-PATENT-CLASS-73-15	c 14	N71-22964 *	US-PATENT-CLASS-73-23	c 25	N78-15210 *
US-PATENT-CLASS-73-12	c 35	N77-18417 *	US-PATENT-CLASS-73-15	c 11	N71-24985 *	US-PATENT-CLASS-73-23	c 35	N78-19465 *
US-PATENT-CLASS-73-12	c 43	N79-25443 *	US-PATENT-CLASS-73-15	c 11	N71-28629 *	US-PATENT-CLASS-73-24	c 06	N69-39733 *
US-PATENT-CLASS-73-12	c 43	N80-14423 *	US-PATENT-CLASS-73-161	c 11	N72-25288 *	US-PATENT-CLASS-73-28	c 14	N73-27376 *
US-PATENT-CLASS-73-12	c 43	N80-23711 *	US-PATENT-CLASS-73-167	c 15	N84-16231 *	US-PATENT-CLASS-73-28	c 14	N73-30395 *
US-PATENT-CLASS-73-12	c 37	N84-33807 *	US-PATENT-CLASS-73-170A	c 35	N78-27384 *	US-PATENT-CLASS-73-28	c 35	N76-18401 *
US-PATENT-CLASS-73-133R	c 35	N77-14407 *	US-PATENT-CLASS-73-170A	c 48	N80-18667 *	US-PATENT-CLASS-73-28	c 35	N78-18390 *
US-PATENT-CLASS-73-133	c 14	N71-23725 *	US-PATENT-CLASS-73-170R	c 07	N73-20175 *	US-PATENT-CLASS-73-290B	c 14	N72-11363 *
US-PATENT-CLASS-73-133	c 15	N72-22482 *	US-PATENT-CLASS-73-170R	c 14	N73-28487 *	US-PATENT-CLASS-73-290	c 14	N71-10500 *
US-PATENT-CLASS-73-134	c 14	N70-40201 *	US-PATENT-CLASS-73-170R	c 14	N73-32327 *	US-PATENT-CLASS-73-290	c 14	N71-21007 *
US-PATENT-CLASS-73-136R	c 15	N72-26371 *	US-PATENT-CLASS-73-170R	c 33	N74-27862 *	US-PATENT-CLASS-73-295	c 23	N71-17802 *
US-PATENT-CLASS-73-136	c 14	N70-34818 *	US-PATENT-CLASS-73-170R	c 35	N75-33367 *	US-PATENT-CLASS-73-295	c 31	N76-14284 *
US-PATENT-CLASS-73-140	c 11	N72-25288 *	US-PATENT-CLASS-73-170R	c 91	N76-30131 *	US-PATENT-CLASS-73-29	c 14	N71-17701 *
US-PATENT-CLASS-73-141AB	c 14	N72-33377 *	US-PATENT-CLASS-73-170R	c 06	N83-10040 *	US-PATENT-CLASS-73-29	c 14	N71-20741 *
US-PATENT-CLASS-73-141A	c 14	N72-21405 *	US-PATENT-CLASS-73-170R	c 35	N84-28018 *	US-PATENT-CLASS-73-301	c 12	N71-26387 *
US-PATENT-CLASS-73-141A	c 14	N72-22437 *	US-PATENT-CLASS-73-170	c 14	N71-14996 *	US-PATENT-CLASS-73-304C	c 14	N71-29134 *
US-PATENT-CLASS-73-141A	c 35	N74-26945 *	US-PATENT-CLASS-73-170	c 17	N73-32415 *	US-PATENT-CLASS-73-304	c 14	N72-22442 *
US-PATENT-CLASS-73-141A	c 35	N74-27865 *	US-PATENT-CLASS-73-178-R	c 06	N84-34443 *	US-PATENT-CLASS-73-30	c 14	N70-41681 *
US-PATENT-CLASS-73-141A	c 35	N75-33369 *	US-PATENT-CLASS-73-178R	c 35	N75-29381 *	US-PATENT-CLASS-73-32R	c 76	N75-12810 *
US-PATENT-CLASS-73-141A	c 52	N81-20703 *	US-PATENT-CLASS-73-178R	c 04	N77-19056 *	US-PATENT-CLASS-73-32R	c 35	N84-28018 *
US-PATENT-CLASS-73-141	c 14	N70-41957 *	US-PATENT-CLASS-73-178R	c 37	N78-27424 *	US-PATENT-CLASS-73-32	c 14	N70-41330 *
US-PATENT-CLASS-73-141	c 15	N71-20441 *	US-PATENT-CLASS-73-178R	c 35	N79-26372 *	US-PATENT-CLASS-73-336.5	c 35	N78-25391 *
US-PATENT-CLASS-73-141	c 14	N71-23790 *	US-PATENT-CLASS-73-178R	c 06	N81-17057 *	US-PATENT-CLASS-73-336.5	c 35	N85-29212 *
US-PATENT-CLASS-73-141	c 26	N71-25490 *	US-PATENT-CLASS-73-178R	c 04	N81-21047 *	US-PATENT-CLASS-73-339	c 33	N73-27796 *
US-PATENT-CLASS-73-142	c 15	N70-40180 *	US-PATENT-CLASS-73-178R	c 18	N81-29152 *	US-PATENT-CLASS-73-341	c 14	N71-15598 *
US-PATENT-CLASS-73-142	c 14	N71-20439 *	US-PATENT-CLASS-73-178R	c 06	N82-16075 *	US-PATENT-CLASS-73-341	c 44	N82-18474 *
US-PATENT-CLASS-73-143	c 35	N75-19615 *	US-PATENT-CLASS-73-178R	c 06	N83-10040 *	US-PATENT-CLASS-73-343R	c 52	N77-10780 *
US-PATENT-CLASS-73-143	c 14	N75-24794 *	US-PATENT-CLASS-73-178R	c 06	N84-27733 *	US-PATENT-CLASS-73-343R	c 35	N80-18357 *
US-PATENT-CLASS-73-144	c 15	N71-22878 *	US-PATENT-CLASS-73-178	c 14	N70-36807 *	US-PATENT-CLASS-73-343	c 33	N71-16356 *
US-PATENT-CLASS-73-147	c 11	N70-33287 *	US-PATENT-CLASS-73-178	c 14	N70-40157 *	US-PATENT-CLASS-73-343	c 11	N71-21475 *
US-PATENT-CLASS-73-147	c 14	N70-33386 *	US-PATENT-CLASS-73-179	c 34	N85-21568 *	US-PATENT-CLASS-73-355R	c 14	N72-24477 *
US-PATENT-CLASS-73-147	c 14	N70-34813 *	US-PATENT-CLASS-73-17	c 06	N71-24607 *	US-PATENT-CLASS-73-355R	c 35	N80-18359 *
US-PATENT-CLASS-73-147	c 11	N70-36913 *	US-PATENT-CLASS-73-180	c 35	N78-14364 *	US-PATENT-CLASS-73-355	c 14	N71-27323 *
US-PATENT-CLASS-73-147	c 14	N70-40400 *	US-PATENT-CLASS-73-180	c 02	N80-28300 *	US-PATENT-CLASS-73-355	c 14	N72-28437 *
US-PATENT-CLASS-73-147	c 14	N70-41366 *	US-PATENT-CLASS-73-182	c 14	N73-13415 *	US-PATENT-CLASS-73-356	c 35	N75-25122 *
US-PATENT-CLASS-73-147	c 11	N71-15926 *	US-PATENT-CLASS-73-182	c 35	N74-32878 *	US-PATENT-CLASS-73-355	c 33	N72-27959 *
US-PATENT-CLASS-73-147	c 09	N71-16086 *	US-PATENT-CLASS-73-182	c 35	N76-14429 *	US-PATENT-CLASS-73-361	c 35	N81-26431 *
US-PATENT-CLASS-73-147	c 12	N71-20436 *	US-PATENT-CLASS-73-182	c 02	N80-28300 *	US-PATENT-CLASS-73-362AR	c 35	N77-27368 *
US-PATENT-CLASS-73-147	c 09	N71-20816 *	US-PATENT-CLASS-73-187	c 35	N85-20295 *	US-PATENT-CLASS-73-379	c 05	N73-27941 *
US-PATENT-CLASS-73-147	c 11	N71-21481 *	US-PATENT-CLASS-73-188	c 06	N80-18036 *	US-PATENT-CLASS-73-379	c 05	N73-30078 *
US-PATENT-CLASS-73-147	c 11	N71-23030 *	US-PATENT-CLASS-73-189	c 20	N71-16281 *	US-PATENT-CLASS-73-379	c 35	N75-15932 *
US-PATENT-CLASS-73-147	c 15	N71-27006 *	US-PATENT-CLASS-73-189	c 02	N71-23007 *	US-PATENT-CLASS-73-379	c 39	N83-20280 *
US-PATENT-CLASS-73-147	c 15	N71-28740 *	US-PATENT-CLASS-73-189	c 14	N71-23726 *	US-PATENT-CLASS-73-382	c 10	N71-13537 *
US-PATENT-CLASS-73-147	c 11	N71-33612 *	US-PATENT-CLASS-73-189	c 14	N73-13415 *	US-PATENT-CLASS-73-382	c 14	N71-17587 *
US-PATENT-CLASS-73-147	c 11	N72-17183 *	US-PATENT-CLASS-73-189	c 14	N73-25460 *	US-PATENT-CLASS-73-384	c 15	N70-37925 *
US-PATENT-CLASS-73-147	c 14	N72-21407 *	US-PATENT-CLASS-73-189	c 35	N76-24524 *	US-PATENT-CLASS-73-388	c 35	N74-32878 *
US-PATENT-CLASS-73-147	c 11	N72-22246 *	US-PATENT-CLASS-73-189	c 34	N76-27517 *	US-PATENT-CLASS-73-389	c 12	N71-24692 *
US-PATENT-CLASS-73-147	c 11	N73-12264 *	US-PATENT-CLASS-73-189	c 34	N77-27345 *	US-PATENT-CLASS-73-38	c 18	N71-24934 *
US-PATENT-CLASS-73-147	c 14	N73-13415 *	US-PATENT-CLASS-73-189	c 34	N79-12359 *	US-PATENT-CLASS-73-398AR	c 52	N74-27566 *
US-PATENT-CLASS-73-147	c 12	N73-25262 *	US-PATENT-CLASS-73-189	c 06	N80-18036 *	US-PATENT-CLASS-73-398AR	c 52	N76-29896 *
US-PATENT-CLASS-73-147	c 12	N73-28144 *	US-PATENT-CLASS-73-189	c 47	N84-28292 *	US-PATENT-CLASS-73-398C	c 14	N72-22438 *
US-PATENT-CLASS-73-147	c 09	N74-17955 *	US-PATENT-CLASS-73-190H	c 35	N74-22095 *	US-PATENT-CLASS-73-398C	c 33	N76-21390 *
US-PATENT-CLASS-73-147	c 34	N74-27730 *	US-PATENT-CLASS-73-190R	c 34	N74-27859 *	US-PATENT-CLASS-73-398	c 14	N70-34816 *
US-PATENT-CLASS-73-147	c 09	N75-12969 *	US-PATENT-CLASS-73-190R	c 35	N81-19426 *	US-PATENT-CLASS-73-398	c 14	N71-21072 *
US-PATENT-CLASS-73-147	c 09	N76-23273 *	US-PATENT-CLASS-73-190	c 33	N71-15641 *	US-PATENT-CLASS-73-398	c 09	N71-24597 *
US-PATENT-CLASS-73-147	c 34	N76-27517 *	US-PATENT-CLASS-73-190	c 14	N71-22989 *	US-PATENT-CLASS-73-398	c 14	N73-30394 *

US-PATENT-CLASS-74-424.8VA

US-PATENT-CLASS-73-399	c 37	N76-18454 * #	US-PATENT-CLASS-73-517	c 14	N71-15969 * #	US-PATENT-CLASS-73-82	c 43	N79-25443 * #
US-PATENT-CLASS-73-3	c 34	N74-27730 #	US-PATENT-CLASS-73-521	c 14	N72-25410 * #	US-PATENT-CLASS-73-82	c 43	N80-14423 * #
US-PATENT-CLASS-73-3	c 34	N86-12547 * #	US-PATENT-CLASS-73-557	c 35	N75-19614 * #	US-PATENT-CLASS-73-82	c 43	N80-23711 * #
US-PATENT-CLASS-73-4R	c 35	N74-13132 * #	US-PATENT-CLASS-73-557	c 07	N76-27322 * #	US-PATENT-CLASS-73-831	c 35	N85-34375 * #
US-PATENT-CLASS-73-4R	c 35	N78-14347 * #	US-PATENT-CLASS-73-56	c 35	N80-18357 * #	US-PATENT-CLASS-73-833	c 24	N84-27829 * #
US-PATENT-CLASS-73-4R	c 35	N80-18358 * #	US-PATENT-CLASS-73-579	c 39	N78-15512 * #	US-PATENT-CLASS-73-84	c 14	N71-22765 * #
US-PATENT-CLASS-73-4V	c 35	N74-15092 * #	US-PATENT-CLASS-73-579	c 35	N79-10390 * #	US-PATENT-CLASS-73-84	c 14	N73-19420 * #
US-PATENT-CLASS-73-40.5A	c 35	N85-21597 * #	US-PATENT-CLASS-73-579	c 33	N83-16626 * #	US-PATENT-CLASS-73-84	c 35	N77-27367 * #
US-PATENT-CLASS-73-40.5	c 14	N71-10779 * #	US-PATENT-CLASS-73-579	c 27	N85-20126 * #	US-PATENT-CLASS-73-856	c 39	N83-32081 * #
US-PATENT-CLASS-73-40.7	c 15	N71-24910 #	US-PATENT-CLASS-73-57	c 14	N71-17584 * #	US-PATENT-CLASS-73-856	c 24	N84-27829 * #
US-PATENT-CLASS-73-40.7	c 14	N71-28992 #	US-PATENT-CLASS-73-57	c 14	N73-14429 * #	US-PATENT-CLASS-73-856	c 35	N85-34375 * #
US-PATENT-CLASS-73-40.7	c 35	N74-28279 * #	US-PATENT-CLASS-73-582	c 27	N85-20126 * #	US-PATENT-CLASS-73-85	c 14	N72-33377 * #
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US-PATENT-3,270,505	c 21	N71-15582 *	US-PATENT-3,299,431	c 07	N71-28979 *	US-PATENT-3,325,749	c 09	N71-28810 *
US-PATENT-3,270,512	c 15	N71-15906 *	US-PATENT-3,299,913	c 15	N71-15918 *	US-PATENT-3,326,043	c 14	N71-10500 *
US-PATENT-3,270,565	c 14	N71-30265 *	US-PATENT-3,300,162	c 31	N70-41373 *	US-PATENT-3,326,407	c 15	N71-10577 *
US-PATENT-3,270,756	c 15	N71-15967 *	US-PATENT-3,300,731	c 07	N70-41372 *	US-PATENT-3,327,298	c 08	N71-21042 *
US-PATENT-3,270,802	c 33	N71-24876 *	US-PATENT-3,300,847	c 15	N70-41371 *	US-PATENT-3,327,991	c 15	N71-21234 *
US-PATENT-3,270,835	c 28	N70-41582 *	US-PATENT-3,300,949	c 05	N70-41297 *	US-PATENT-3,328,624	c 28	N71-28850 *
US-PATENT-3,270,908	c 31	N71-15664 *	US-PATENT-3,300,981	c 28	N70-41275 *	US-PATENT-3,329,375	c 21	N71-21708 *
US-PATENT-3,270,985	c 21	N71-15583 *	US-PATENT-3,301,046	c 14	N70-41366 *	US-PATENT-3,329,918	c 09	N71-21583 *
US-PATENT-3,270,986	c 05	N71-12336 *	US-PATENT-3,301,315	c 09	N70-41717 *	US-PATENT-3,330,052	c 11	N71-21474 *
US-PATENT-3,270,988	c 01	N71-13410 *	US-PATENT-3,301,507	c 31	N70-41631 *	US-PATENT-3,330,082	c 15	N71-21531 *
US-PATENT-3,270,989	c 02	N71-11041 *	US-PATENT-3,301,511	c 02	N70-41630 *	US-PATENT-3,330,510	c 31	N71-28851 *
US-PATENT-3,270,990	c 28	N71-15563 *	US-PATENT-3,301,578	c 15	N70-41629 *	US-PATENT-3,330,549	c 15	N71-21530 *
US-PATENT-3,271,140	c 17	N71-15644 *	US-PATENT-3,302,023	c 14	N70-41676 *	US-PATENT-3,331,071	c 07	N71-28900 *
US-PATENT-3,271,181	c 15	N71-16077 *	US-PATENT-3,302,040	c 09	N70-41675 *	US-PATENT-3,331,246	c 11	N71-21475 *
US-PATENT-3,271,532	c 09	N71-16089 *	US-PATENT-3,302,569	c 15	N70-41679 *	US-PATENT-3,331,255	c 15	N71-21529 *
US-PATENT-3,271,558	c 15	N71-15871 *	US-PATENT-3,302,633	c 05	N70-41819 *	US-PATENT-3,331,404	c 12	N71-21089 *
US-PATENT-3,271,594	c 10	N71-28739 *	US-PATENT-3,302,662	c 15	N70-41811 *	US-PATENT-3,331,951	c 21	N71-21688 *
US-PATENT-3,271,620	c 09	N71-12540 *	US-PATENT-3,302,960	c 15	N70-41829 *	US-PATENT-3,333,152	c 25	N71-21693 *
US-PATENT-3,271,637	c 26	N71-18064 *	US-PATENT-3,303,304	c 14	N70-41812 *	US-PATENT-3,333,788	c 31	N71-21881 *
US-PATENT-3,271,649	c 10	N71-16030 *	US-PATENT-3,304,028	c 31	N70-41855 *	US-PATENT-3,334,225	c 14	N73-32325 *
US-PATENT-3,273,094	c 23	N71-29049 *	US-PATENT-3,304,718	c 28	N70-41922 *	US-PATENT-3,336,725	c 15	N71-21528 *
US-PATENT-3,273,355	c 33	N71-17897 *	US-PATENT-3,304,724	c 31	N70-41948 *	US-PATENT-3,336,748	c 25	N71-21694 *
US-PATENT-3,273,381	c 32	N71-17645 *	US-PATENT-3,304,729	c 31	N70-41871 *	US-PATENT-3,336,754	c 28	N71-22983 *
US-PATENT-3,273,388	c 09	N71-16086 *	US-PATENT-3,304,768	c 32	N70-42003 *	US-PATENT-3,337,004	c 14	N71-23092 *
US-PATENT-3,273,392	c 23	N71-17802 *	US-PATENT-3,304,773	c 14	N70-41957 *	US-PATENT-3,337,279	c 05	N71-23080 *
US-PATENT-3,273,399	c 12	N71-24692 *	US-PATENT-3,304,799	c 03	N70-41954 *	US-PATENT-3,337,315	c 18	N71-23088 *
US-PATENT-3,274,304	c 26	N71-17818 *	US-PATENT-3,304,865	c 28	N70-41967 *	US-PATENT-3,337,337	c 18	N71-22894 *
US-PATENT-3,275,794	c 37	N75-27376 *	US-PATENT-3,305,415	c 27	N70-41897 *	US-PATENT-3,337,790	c 12	N71-20896 *
US-PATENT-3,276,251	c 11	N71-15926 *	US-PATENT-3,305,636	c 08	N70-41961 *	US-PATENT-3,337,812	c 09	N71-23097 *
US-PATENT-3,276,376	c 31	N71-17629 *	US-PATENT-3,305,801	c 10	N70-41964 *	US-PATENT-3,339,404	c 14	N71-22765 *
US-PATENT-3,276,602	c 32	N71-17609 *	US-PATENT-3,305,810	c 09	N70-41929 *	US-PATENT-3,339,863	c 14	N71-23040 *
US-PATENT-3,276,679	c 15	N71-16079 *	US-PATENT-3,305,861	c 21	N70-41930 *	US-PATENT-3,340,099	c 03	N71-23006 *
US-PATENT-3,276,722	c 02	N71-16087 *	US-PATENT-3,305,870	c 07	N71-15907 *	US-PATENT-3,340,395	c 14	N71-23041 *
US-PATENT-3,276,726	c 31	N71-16081 *	US-PATENT-3,306,134	c 37	N78-17385 *	US-PATENT-3,340,397	c 11	N71-23042 *
US-PATENT-3,276,865	c 17	N71-16025 *	US-PATENT-3,308,848	c 12	N71-16031 *	US-PATENT-3,340,430	c 09	N71-22796 *
US-PATENT-3,276,866	c 17	N71-16026 *	US-PATENT-3,309,012	c 33	N71-17610 *	US-PATENT-3,340,532	c 10	N71-21473 *
US-PATENT-3,276,946	c 23	N71-15978 *	US-PATENT-3,309,961	c 15	N71-16078 *	US-PATENT-3,340,599	c 09	N71-23027 *
US-PATENT-3,277,314	c 10	N71-16042 *	US-PATENT-3,310,054	c 08	N71-15908 *	US-PATENT-3,340,713	c 15	N71-22723 *
US-PATENT-3,277,366	c 10	N71-16057 *	US-PATENT-3,310,138	c 12	N71-16894 *	US-PATENT-3,340,732	c 02	N71-23007 *
US-PATENT-3,277,373	c 07	N71-16088 *	US-PATENT-3,310,256	c 31	N71-17679 *	US-PATENT-3,341,151	c 31	N71-23009 *
US-PATENT-3,277,375	c 07	N71-11284 *	US-PATENT-3,310,258	c 31	N71-17691 *	US-PATENT-3,341,169	c 15	N71-23024 *
US-PATENT-3,277,458	c 10	N71-16058 *	US-PATENT-3,310,261	c 02	N71-11038 *	US-PATENT-3,341,708	c 16	N71-22895 *
US-PATENT-3,277,486	c 31	N71-10747 *	US-PATENT-3,310,262	c 02	N71-12243 *	US-PATENT-3,341,778	c 07	N71-23098 *
US-PATENT-3,279,193	c 33	N71-28852 *	US-PATENT-3,310,443	c 24	N71-10560 *	US-PATENT-3,341,977	c 15	N71-22705 *
US-PATENT-3,281,558	c 33	N75-27249 *	US-PATENT-3,310,699	c 14	N73-32324 *	US-PATENT-3,342,055	c 15	N71-22797 *
US-PATENT-3,281,963	c 11	N71-10746 *	US-PATENT-3,310,765	c 33	N79-21264 *	US-PATENT-3,342,066	c 11	N71-23030 *
US-PATENT-3,281,964	c 11	N71-10776 *	US-PATENT-3,310,978	c 14	N71-10616 *	US-PATENT-3,342,653	c 15	N71-22713 *
US-PATENT-3,281,965	c 11	N71-10748 *	US-PATENT-3,310,980	c 11	N71-10604 *	US-PATENT-3,343,180	c 05	N71-23159 *
US-PATENT-3,282,035	c 11	N71-10777 *	US-PATENT-3,311,315	c 07	N71-10609 *	US-PATENT-3,343,189	c 05	N71-22748 *
US-PATENT-3,282,091	c 14	N71-10781 *	US-PATENT-3,311,502	c 03	N71-10608 *	US-PATENT-3,344,340	c 09	N71-21449 *
US-PATENT-3,282,532	c 31	N71-17729 *	US-PATENT-3,311,510	c 26	N71-10607 *	US-PATENT-3,344,425	c 10	N71-21483 *
US-PATENT-3,282,541	c 31	N71-24750 *	US-PATENT-3,311,571	c 27	N79-21190 *	US-PATENT-3,345,820	c 28	N71-21822 *
US-PATENT-3,282,739	c 03	N71-11053 *	US-PATENT-3,311,748	c 21	N71-10678 *	US-PATENT-3,345,822	c 27	N71-21819 *
US-PATENT-3,282,740	c 03	N71-11051 *	US-PATENT-3,311,772	c 09	N71-10618 *	US-PATENT-3,345,840	c 15	N71-21536 *
US-PATENT-3,283,088	c 10	N71-15909 *	US-PATENT-3,311,832	c 07	N71-10775 *	US-PATENT-3,345,866	c 11	N71-21481 *
US-PATENT-3,283,175	c 10	N71-15910 *	US-PATENT-3,312,101	c 14	N71-10774 *	US-PATENT-3,346,419	c 03	N71-20895 *
US-PATENT-3,283,241	c 14	N71-16014 *	US-PATENT-3,313,204	c 28	N73-24783 *	US-PATENT-3,346,442	c 18	N71-21651 *
US-PATENT-3,286,274	c 05	N71-12335 *	US-PATENT-3,316,716	c 28	N71-10780 *	US-PATENT-3,346,515	c 06	N71-20905 *
US-PATENT-3,286,531	c 30	N71-17788 *	US-PATENT-3,316,752	c 14	N71-10779 *	US-PATENT-3,346,724	c 15	N71-21179 *
US-PATENT-3,286,629	c 31	N71-17730 *	US-PATENT-3,316,991	c 14	N71-10773 *	US-PATENT-3,346,806	c 14	N71-21090 *
US-PATENT-3,286,630	c 31	N71-10582 *	US-PATENT-3,317,180	c 15	N71-10778 *	US-PATENT-3,346,929	c 15	N71-21076 *
US-PATENT-3,286,882	c 27	N71-29155 *	US-PATENT-3,317,341	c 18	N71-10772 *	US-PATENT-3,347,046	c 33	N71-21507 *
US-PATENT-3,286,953	c 21	N70-41856 *	US-PATENT-3,317,352	c 03	N71-10728 *	US-PATENT-3,347,309	c 33	N71-29046 *
US-PATENT-3,286,957	c 02	N70-41863 *	US-PATENT-3,317,641	c 15	N71-10672 *	US-PATENT-3,347,465	c 18	N71-21068 *
US-PATENT-3,287,031	c 15	N70-41808 *	US-PATENT-3,317,731	c 21	N71-10771 *	US-PATENT-3,347,466	c 28	N71-21493 *

US-PATENT-3,347,531	c 15	N71-21177 *	US-PATENT-3,379,064	c 14	N71-23093 *	US-PATENT-3,413,393	c 17	N71-29137 *
US-PATENT-3,347,665	c 17	N71-20743 *	US-PATENT-3,379,330	c 23	N71-22881 *	US-PATENT-3,413,510	c 09	N71-23190 *
US-PATENT-3,348,048	c 14	N71-21088 *	US-PATENT-3,379,885	c 09	N71-22985 *	US-PATENT-3,413,536	c 03	N71-24605 *
US-PATENT-3,348,053	c 10	N71-20782 *	US-PATENT-3,379,974	c 14	N71-22990 *	US-PATENT-3,414,012	c 09	N71-23191 *
US-PATENT-3,348,152	c 10	N71-20841 *	US-PATENT-3,380,042	c 07	N71-23001 *	US-PATENT-3,414,358	c 14	N71-23175 *
US-PATENT-3,348,218	c 10	N71-29135 *	US-PATENT-3,380,049	c 10	N71-23099 *	US-PATENT-3,415,032	c 15	N71-23256 *
US-PATENT-3,349,814	c 33	N71-20834 *	US-PATENT-3,381,339	c 06	N71-22975 *	US-PATENT-3,415,069	c 15	N71-24044 *
US-PATENT-3,350,033	c 14	N71-21082 *	US-PATENT-3,381,517	c 09	N71-22988 *	US-PATENT-3,415,116	c 14	N71-23790 *
US-PATENT-3,350,034	c 31	N71-21064 *	US-PATENT-3,381,527	c 15	N71-22878 *	US-PATENT-3,415,126	c 21	N71-23289 *
US-PATENT-3,350,643	c 07	N71-20791 *	US-PATENT-3,381,569	c 21	N71-22880 *	US-PATENT-3,415,156	c 15	N71-24043 *
US-PATENT-3,350,671	c 09	N71-20842 *	US-PATENT-3,381,778	c 15	N71-22877 *	US-PATENT-3,415,643	c 17	N71-23248 *
US-PATENT-3,350,926	c 14	N71-21091 *	US-PATENT-3,382,082	c 18	N71-22998 *	US-PATENT-3,416,106	c 09	N71-24808 *
US-PATENT-3,352,157	c 14	N71-21072 *	US-PATENT-3,382,105	c 03	N71-29044 *	US-PATENT-3,416,274	c 31	N71-24035 *
US-PATENT-3,352,192	c 15	N71-21489 *	US-PATENT-3,382,107	c 03	N71-22974 *	US-PATENT-3,416,939	c 18	N71-24183 *
US-PATENT-3,352,774	c 37	N80-14395 *	US-PATENT-3,382,714	c 14	N71-22989 *	US-PATENT-3,416,975	c 17	N71-23828 *
US-PATENT-3,353,359	c 28	N71-20942 *	US-PATENT-3,383,461	c 07	N71-23026 *	US-PATENT-3,416,988	c 15	N71-24164 *
US-PATENT-3,354,098	c 06	N71-20717 *	US-PATENT-3,383,524	c 10	N71-23029 *	US-PATENT-3,417,247	c 14	N71-23797 *
US-PATENT-3,354,320	c 23	N71-21821 *	US-PATENT-3,383,903	c 14	N71-23036 *	US-PATENT-3,417,266	c 09	N71-23270 *
US-PATENT-3,354,462	c 14	N71-21006 *	US-PATENT-3,383,922	c 14	N71-22752 *	US-PATENT-3,417,298	c 10	N71-23271 *
US-PATENT-3,355,861	c 18	N71-20742 *	US-PATENT-3,384,016	c 31	N71-23008 *	US-PATENT-3,417,316	c 14	N71-23174 *
US-PATENT-3,355,948	c 14	N71-21007 *	US-PATENT-3,384,075	c 05	N71-22896 *	US-PATENT-3,417,321	c 09	N71-23316 *
US-PATENT-3,356,320	c 05	N71-20718 *	US-PATENT-3,384,111	c 15	N71-22706 *	US-PATENT-3,417,332	c 07	N71-23405 *
US-PATENT-3,356,549	c 15	N71-21404 *	US-PATENT-3,384,324	c 33	N71-22792 *	US-PATENT-3,417,399	c 30	N71-23723 *
US-PATENT-3,356,885	c 25	N71-20747 *	US-PATENT-3,384,820	c 09	N71-23021 *	US-PATENT-3,417,400	c 07	N71-28809 *
US-PATENT-3,356,917	c 33	N79-21265 *	US-PATENT-3,384,895	c 07	N71-22984 *	US-PATENT-3,419,329	c 14	N71-23268 *
US-PATENT-3,357,024	c 12	N71-20815 *	US-PATENT-3,385,036	c 15	N71-22721 *	US-PATENT-3,419,363	c 18	N71-23710 *
US-PATENT-3,357,093	c 15	N71-21078 *	US-PATENT-3,386,337	c 15	N71-22799 *	US-PATENT-3,419,384	c 17	N73-28573 *
US-PATENT-3,357,237	c 33	N71-21586 *	US-PATENT-3,386,685	c 31	N71-22968 *	US-PATENT-3,419,433	c 03	N71-23187 *
US-PATENT-3,357,862	c 03	N71-20904 *	US-PATENT-3,386,686	c 31	N71-22969 *	US-PATENT-3,419,531	c 27	N79-21191 *
US-PATENT-3,358,264	c 09	N71-20851 *	US-PATENT-3,387,149	c 14	N71-22993 *	US-PATENT-3,419,537	c 06	N71-23500 *
US-PATENT-3,359,046	c 15	N71-20739 *	US-PATENT-3,387,218	c 37	N78-17386 *	US-PATENT-3,419,827	c 09	N71-23548 *
US-PATENT-3,359,132	c 09	N71-20705 *	US-PATENT-3,388,258	c 14	N71-22996 *	US-PATENT-3,419,964	c 14	N69-21363 *
US-PATENT-3,359,409	c 07	N71-21476 *	US-PATENT-3,388,387	c 10	N71-23033 *	US-PATENT-3,419,992	c 14	N71-23401 *
US-PATENT-3,359,435	c 15	N71-21311 *	US-PATENT-3,388,590	c 14	N71-23087 *	US-PATENT-3,420,069	c 15	N69-21465 *
US-PATENT-3,359,555	c 09	N71-20864 *	US-PATENT-3,389,017	c 15	N71-23022 *	US-PATENT-3,420,223	c 05	N69-21925 *
US-PATENT-3,359,568	c 54	N78-17680 *	US-PATENT-3,389,260	c 14	N71-23269 *	US-PATENT-3,420,225	c 05	N69-21473 *
US-PATENT-3,359,819	c 15	N71-21744 *	US-PATENT-3,389,346	c 10	N71-28859 *	US-PATENT-3,420,253	c 12	N69-21466 *
US-PATENT-3,359,855	c 23	N71-21882 *	US-PATENT-3,389,877	c 15	N71-28936 *	US-PATENT-3,420,338	c 15	N71-26243 *
US-PATENT-3,360,798	c 09	N71-20658 *	US-PATENT-3,390,017	c 03	N71-23336 *	US-PATENT-3,420,471	c 05	N69-21380 *
US-PATENT-3,360,864	c 14	N71-24693 *	US-PATENT-3,390,020	c 26	N71-23654 *	US-PATENT-3,420,704	c 15	N69-21460 *
US-PATENT-3,360,972	c 15	N71-24833 *	US-PATENT-3,390,023	c 26	N75-29236 *	US-PATENT-3,420,945	c 09	N69-21542 *
US-PATENT-3,360,980	c 14	N71-20741 *	US-PATENT-3,390,262	c 09	N71-23311 *	US-PATENT-3,420,978	c 15	N69-21471 *
US-PATENT-3,360,988	c 09	N71-20816 *	US-PATENT-3,390,378	c 08	N71-23295 *	US-PATENT-3,421,004	c 14	N71-19568 *
US-PATENT-3,361,045	c 15	N71-21060 *	US-PATENT-3,390,528	c 20	N79-21124 *	US-PATENT-3,421,053	c 15	N69-21472 *
US-PATENT-3,361,067	c 26	N71-21824 *	US-PATENT-3,391,080	c 15	N71-24046 *	US-PATENT-3,421,056	c 14	N69-23191 *
US-PATENT-3,361,400	c 15	N71-20813 *	US-PATENT-3,392,403	c 23	N71-23976 *	US-PATENT-3,421,105	c 09	N69-21543 *
US-PATENT-3,361,666	c 15	N71-21403 *	US-PATENT-3,392,586	c 14	N71-24232 *	US-PATENT-3,421,134	c 09	N69-21470 *
US-PATENT-3,361,985	c 10	N71-20852 *	US-PATENT-3,392,864	c 18	N71-23658 *	US-PATENT-3,421,331	c 15	N69-23190 *
US-PATENT-3,364,311	c 07	N71-20814 *	US-PATENT-3,392,865	c 15	N71-23816 *	US-PATENT-3,421,363	c 11	N69-21540 *
US-PATENT-3,364,366	c 09	N71-28926 *	US-PATENT-3,392,936	c 01	N71-23497 *	US-PATENT-3,421,506	c 05	N69-23192 *
US-PATENT-3,364,578	c 14	N71-21079 *	US-PATENT-3,393,059	c 06	N71-23499 *	US-PATENT-3,421,541	c 15	N69-21924 *
US-PATENT-3,364,631	c 32	N71-21045 *	US-PATENT-3,393,330	c 22	N71-23599 *	US-PATENT-3,421,549	c 03	N69-21469 *
US-PATENT-3,364,777	c 15	N71-20740 *	US-PATENT-3,393,332	c 09	N71-23443 *	US-PATENT-3,421,591	c 14	N69-21923 *
US-PATENT-3,364,813	c 09	N71-22999 *	US-PATENT-3,393,347	c 10	N71-23543 *	US-PATENT-3,421,700	c 15	N69-23185 *
US-PATENT-3,365,657	c 10	N71-22961 *	US-PATENT-3,393,380	c 10	N71-23544 *	US-PATENT-3,421,768	c 15	N69-21362 *
US-PATENT-3,365,665	c 14	N71-23037 *	US-PATENT-3,393,384	c 09	N71-23573 *	US-PATENT-3,421,864	c 17	N71-23046 *
US-PATENT-3,365,897	c 33	N71-28892 *	US-PATENT-3,394,286	c 14	N73-30391 *	US-PATENT-3,421,948	c 03	N69-21337 *
US-PATENT-3,365,930	c 14	N71-22964 *	US-PATENT-3,394,359	c 08	N71-28925 *	US-PATENT-3,422,213	c 03	N69-21539 *
US-PATENT-3,365,941	c 14	N71-22965 *	US-PATENT-3,394,975	c 23	N71-30027 *	US-PATENT-3,422,278	c 09	N69-21468 *
US-PATENT-3,366,886	c 10	N71-22962 *	US-PATENT-3,395,053	c 18	N71-23047 *	US-PATENT-3,422,291	c 25	N69-21929 *
US-PATENT-3,366,894	c 10	N71-23084 *	US-PATENT-3,395,565	c 14	N73-30390 *	US-PATENT-3,422,324	c 14	N69-21541 *
US-PATENT-3,367,114	c 28	N71-23081 *	US-PATENT-3,396,057	c 26	N71-23043 *	US-PATENT-3,422,352	c 14	N71-19431 *
US-PATENT-3,367,121	c 15	N71-23025 *	US-PATENT-3,396,184	c 06	N71-28808 *	US-PATENT-3,422,354	c 09	N69-21926 *
US-PATENT-3,367,182	c 33	N71-23085 *	US-PATENT-3,396,303	c 09	N71-22987 *	US-PATENT-3,422,390	c 09	N69-21927 *
US-PATENT-3,367,224	c 15	N71-22798 *	US-PATENT-3,396,584	c 14	N71-30026 *	US-PATENT-3,422,403	c 08	N69-21928 *
US-PATENT-3,367,271	c 15	N71-24042 *	US-PATENT-3,396,719	c 52	N79-21750 *	US-PATENT-3,422,440	c 09	N69-21467 *
US-PATENT-3,367,308	c 11	N71-22875 *	US-PATENT-3,396,920	c 31	N71-29050 *	US-PATENT-3,423,179	c 15	N69-21922 *
US-PATENT-3,367,445	c 15	N71-23048 *	US-PATENT-3,397,094	c 26	N71-29156 *	US-PATENT-3,423,290	c 06	N71-17705 *
US-PATENT-3,368,486	c 15	N71-22874 *	US-PATENT-3,397,117	c 15	N71-23086 *	US-PATENT-3,423,579	c 09	N71-19480 *
US-PATENT-3,369,222	c 08	N71-22707 *	US-PATENT-3,397,318	c 14	N71-22991 *	US-PATENT-3,423,608	c 09	N69-21313 *
US-PATENT-3,369,223	c 08	N71-22710 *	US-PATENT-3,397,512	c 15	N71-23023 *	US-PATENT-3,423,627	c 33	N78-17293 *
US-PATENT-3,369,564	c 15	N71-23051 *	US-PATENT-3,397,537	c 20	N79-21125 *	US-PATENT-3,424,966	c 10	N71-20448 *
US-PATENT-3,370,039	c 06	N71-28807 *	US-PATENT-3,397,932	c 15	N71-22982 *	US-PATENT-3,425,131	c 15	N71-19489 *
US-PATENT-3,372,588	c 33	N71-29051 *	US-PATENT-3,399,299	c 10	N71-23662 *	US-PATENT-3,425,268	c 14	N69-39975 *
US-PATENT-3,373,016	c 26	N75-27127 *	US-PATENT-3,399,574	c 32	N71-24285 *	US-PATENT-3,425,272	c 14	N71-20439 *
US-PATENT-3,373,069	c 15	N71-23052 *	US-PATENT-3,402,265	c 09	N73-28084 *	US-PATENT-3,425,276	c 14	N69-24257 *
US-PATENT-3,373,404	c 08	N71-22749 *	US-PATENT-3,404,289	c 09	N71-23545 *	US-PATENT-3,425,486	c 05	N71-24147 *
US-PATENT-3,373,430	c 09	N71-22888 *	US-PATENT-3,404,348	c 32	N74-22096 *	US-PATENT-3,425,487	c 05	N71-19439 *
US-PATENT-3,373,431	c 07	N71-22750 *	US-PATENT-3,405,406	c 05	N71-23161 *	US-PATENT-3,425,885	c 15	N69-24322 *
US-PATENT-3,373,640	c 15	N71-22722 *	US-PATENT-3,405,887	c 31	N71-24315 *	US-PATENT-3,426,219	c 09	N69-24317 *
US-PATENT-3,373,914	c 15	N71-23050 *	US-PATENT-3,406,336	c 10	N71-24863 *	US-PATENT-3,426,230	c 15	N69-24319 *
US-PATENT-3,374,339	c 08	N71-22897 *	US-PATENT-3,406,742	c 33	N71-24276 *	US-PATENT-3,426,263	c 03	N71-19438 *
US-PATENT-3,374,366	c 09	N71-23015 *	US-PATENT-3,407,304	c 14	N71-23240 *	US-PATENT-3,426,272	c 14	N69-39785 *
US-PATENT-3,374,830	c 33	N71-22890 *	US-PATENT-3,408,816	c 28	N71-24736 *	US-PATENT-3,426,746	c 05	N71-26293 *
US-PATENT-3,375,451	c 10	N71-22986 *	US-PATENT-3,408,870	c 14	N71-23227 *	US-PATENT-3,426,791	c 15	N71-19569 *
US-PATENT-3,375,479	c 15	N71-23049 *	US-PATENT-3,409,247	c 33	N71-28903 *	US-PATENT-3,427,047	c 15	N69-27490 *
US-PATENT-3,375,712	c 35	N75-29382 *	US-PATENT-3,409,252	c 15	N71-23255 *	US-PATENT-3,427,089	c 23	N69-24332 *
US-PATENT-3,375,885	c 15	N73-32362 *	US-PATENT-3,409,554	c 26	N71-23292 *	US-PATENT-3,427,093	c 09	N71-19479 *
US-PATENT-3,376,730	c 14	N71-22995 *	US-PATENT-3,409,730	c 33	N71-24145 *	US-PATENT-3,427,097	c 11	N69-24321 *
US-PATENT-3,377,208	c 14	N71-23039 *	US-PATENT-3,411,356	c 14	N71-23226 *	US-PATENT-3,427,205	c 15	N69-24320 *
US-PATENT-3,377,845	c 14	N71-22992 *	US-PATENT-3,411,900	c 26	N75-27126 *	US-PATENT-3,427,435	c 17	N69-25147 *
US-PATENT-3,378,315	c 15	N71-22997 *	US-PATENT-3,412,559	c 28	N71-23293 *	US-PATENT-3,427,454	c 05	N71-19440 *
US-PATENT-3,378,657	c 33	N79-33392 *	US-PATENT-3,412,598	c 14	N71-23225 *	US-PATENT-3,427,525	c 03	N69-21330 *
US-PATENT-3,378,851	c 05	N71-23096 *	US-PATENT-3,412,729	c 04	N71-23185 *	US-PATENT-3,428,761	c 09	N69-24329 *
US-PATENT-3,378,892	c 15	N71-22994 *	US-PATENT-3,412,961	c 32	N71-23971 *	US-PATENT-3,428,812	c 14	N69-27485 *
US-PATENT-3,379,052	c 14	N73-32321 *	US-PATENT-3,413,115	c 17	N71-23365 *	US-PATENT-3,428,847	c 15	N69-24266 *

US-PATENT-3,428,910	c 09	N69-24330 *	#	US-PATENT-3,453,172	c 15	N69-39735 *	#	US-PATENT-3,472,202	c 17	N71-24911 *
US-PATENT-3,428,919	c 07	N69-24334 *	#	US-PATENT-3,453,462	c 03	N69-39983 *	#	US-PATENT-3,472,372	c 15	N71-20440 *
US-PATENT-3,428,923	c 07	N69-27462 *	#	US-PATENT-3,453,546	c 05	N71-12342 *	#	US-PATENT-3,472,470	c 02	N71-20570 *
US-PATENT-3,429,058	c 12	N69-39988 *	#	US-PATENT-3,453,878	c 09	N79-21083 *	#	US-PATENT-3,472,577	c 23	N71-24857 *
US-PATENT-3,429,177	c 06	N69-39733 *	#	US-PATENT-3,454,410	c 18	N69-39979 *	#	US-PATENT-3,472,625	c 06	N71-23527 *
US-PATENT-3,429,477	c 15	N69-27502 *	#	US-PATENT-3,454,766	c 35	N75-27329 *	#	US-PATENT-3,472,629	c 14	N71-20442 *
US-PATENT-3,429,756	c 76	N79-21910 *	#	US-PATENT-3,455,121	c 14	N71-20427 *	#	US-PATENT-3,472,698	c 03	N71-23449 *
US-PATENT-3,430,063	c 09	N69-27500 *	#	US-PATENT-3,455,171	c 23	N71-16098 *	#	US-PATENT-3,472,709	c 18	N71-26153 *
US-PATENT-3,430,115	c 09	N69-24318 *	#	US-PATENT-3,456,112	c 14	N69-39937 *	#	US-PATENT-3,472,742	c 17	N71-24830 *
US-PATENT-3,430,131	c 24	N71-20518 *	#	US-PATENT-3,456,193	c 08	N71-19763 *	#	US-PATENT-3,472,998	c 16	N71-20400 *
US-PATENT-3,430,182	c 14	N69-27431 *	#	US-PATENT-3,456,201	c 09	N69-39885 *	#	US-PATENT-3,473,050	c 09	N71-20447 *
US-PATENT-3,430,227	c 08	N71-19687 *	#	US-PATENT-3,458,104	c 15	N71-20393 *	#	US-PATENT-3,473,116	c 25	N71-20563 *
US-PATENT-3,430,237	c 07	N69-39974 *	#	US-PATENT-3,458,313	c 14	N71-17574 *	#	US-PATENT-3,473,165	c 05	N71-26333 *
US-PATENT-3,430,460	c 15	N69-27505 *	#	US-PATENT-3,458,651	c 09	N71-19449 *	#	US-PATENT-3,473,216	c 15	N71-20443 *
US-PATENT-3,430,902	c 14	N69-27486 *	#	US-PATENT-3,458,702	c 14	N71-18699 *	#	US-PATENT-3,473,379	c 12	N71-26387 *
US-PATENT-3,430,909	c 11	N69-27466 *	#	US-PATENT-3,458,726	c 10	N69-39888 *	#	US-PATENT-3,473,758	c 03	N71-20273 *
US-PATENT-3,430,937	c 15	N69-27483 *	#	US-PATENT-3,458,833	c 10	N71-19418 *	#	US-PATENT-3,474,192	c 07	N71-26102 *
US-PATENT-3,430,942	c 15	N69-27504 *	#	US-PATENT-3,458,851	c 09	N69-39734 *	#	US-PATENT-3,474,220	c 15	N71-19486 *
US-PATENT-3,431,149	c 14	N69-27459 *	#	US-PATENT-3,459,391	c 03	N71-11058 *	#	US-PATENT-3,474,328	c 14	N71-26266 *
US-PATENT-3,431,397	c 15	N69-27871 *	#	US-PATENT-3,460,378	c 14	N71-24233 *	#	US-PATENT-3,474,357	c 09	N71-20445 *
US-PATENT-3,431,460	c 09	N71-23189 *	#	US-PATENT-3,460,379	c 15	N71-24834 *	#	US-PATENT-3,474,413	c 10	N71-26103 *
US-PATENT-3,431,559	c 09	N69-24333 *	#	US-PATENT-3,460,381	c 14	N71-23725 *	#	US-PATENT-3,474,441	c 08	N71-19544 *
US-PATENT-3,432,730	c 09	N69-27422 *	#	US-PATENT-3,460,397	c 15	N71-24045 *	#	US-PATENT-3,475,384	c 06	N73-30103 *
US-PATENT-3,433,015	c 28	N71-20330 *	#	US-PATENT-3,460,759	c 28	N71-23968 *	#	US-PATENT-3,475,442	c 26	N75-27125 *
US-PATENT-3,433,079	c 14	N69-27503 *	#	US-PATENT-3,460,781	c 14	N71-23698 *	#	US-PATENT-3,475,675	c 33	N78-17295 *
US-PATENT-3,433,662	c 14	N71-20461 *	#	US-PATENT-3,460,995	c 03	N71-20407 *	#	US-PATENT-3,478,514	c 37	N77-22479 *
US-PATENT-3,433,818	c 06	N71-23230 *	#	US-PATENT-3,461,290	c 14	N71-26475 *	#	US-PATENT-3,480,789	c 10	N71-26826 *
US-PATENT-3,433,909	c 10	N71-23663 *	#	US-PATENT-3,461,393	c 10	N71-26415 *	#	US-PATENT-3,481,638	c 15	N71-26312 *
US-PATENT-3,433,953	c 14	N69-27484 *	#	US-PATENT-3,461,437	c 10	N71-26434 *	#	US-PATENT-3,481,802	c 31	N79-21226 *
US-PATENT-3,433,960	c 16	N69-27491 *	#	US-PATENT-3,461,700	c 15	N71-26346 *	#	US-PATENT-3,481,887	c 18	N71-26155 *
US-PATENT-3,433,961	c 14	N69-27432 *	#	US-PATENT-3,461,721	c 12	N71-20436 *	#	US-PATENT-3,482,179	c 10	N71-26331 *
US-PATENT-3,434,033	c 09	N69-39984 *	#	US-PATENT-3,461,855	c 05	N71-20268 *	#	US-PATENT-3,483,535	c 10	N71-26418 *
US-PATENT-3,434,037	c 10	N71-26414 *	#	US-PATENT-3,463,001	c 14	N71-20429 *	#	US-PATENT-3,484,712	c 10	N71-26374 *
US-PATENT-3,434,050	c 09	N71-20569 *	#	US-PATENT-3,463,563	c 15	N71-23812 *	#	US-PATENT-3,485,290	c 20	N79-21123 *
US-PATENT-3,434,064	c 09	N69-39986 *	#	US-PATENT-3,463,673	c 03	N71-20491 *	#	US-PATENT-3,486,123	c 16	N71-24831 *
US-PATENT-3,434,855	c 18	N71-24184 *	#	US-PATENT-3,463,679	c 17	N71-24142 *	#	US-PATENT-3,487,216	c 14	N71-24809 *
US-PATENT-3,434,885	c 03	N71-20492 *	#	US-PATENT-3,463,761	c 06	N73-30099 *	#	US-PATENT-3,487,281	c 15	N71-24695 *
US-PATENT-3,435,246	c 14	N69-24331 *	#	US-PATENT-3,463,762	c 06	N73-30100 *	#	US-PATENT-3,487,288	c 10	N71-25139 *
US-PATENT-3,437,394	c 14	N69-27461 *	#	US-PATENT-3,463,939	c 10	N71-19471 *	#	US-PATENT-3,487,680	c 15	N71-17696 *
US-PATENT-3,437,527	c 03	N69-24267 *	#	US-PATENT-3,464,012	c 14	N71-26244 *	#	US-PATENT-3,487,765	c 54	N78-17679 *
US-PATENT-3,437,560	c 04	N69-27487 *	#	US-PATENT-3,464,016	c 10	N71-19472 *	#	US-PATENT-3,488,103	c 14	N71-15604 *
US-PATENT-3,437,818	c 03	N71-23354 *	#	US-PATENT-3,464,018	c 09	N71-23525 *	#	US-PATENT-3,488,123	c 14	N71-17627 *
US-PATENT-3,437,832	c 09	N69-27463 *	#	US-PATENT-3,464,049	c 32	N71-15974 *	#	US-PATENT-3,488,414	c 15	N71-17803 *
US-PATENT-3,437,874	c 08	N71-20571 *	#	US-PATENT-3,464,051	c 15	N71-17685 *	#	US-PATENT-3,488,461	c 09	N71-12518 *
US-PATENT-3,437,903	c 03	N69-25146 *	#	US-PATENT-3,465,482	c 31	N71-16080 *	#	US-PATENT-3,488,504	c 21	N71-15642 *
US-PATENT-3,437,919	c 14	N69-27423 *	#	US-PATENT-3,465,567	c 15	N71-18579 *	#	US-PATENT-3,488,771	c 54	N78-17678 *
US-PATENT-3,437,935	c 09	N69-24324 *	#	US-PATENT-3,465,569	c 14	N71-17659 *	#	US-PATENT-3,490,074	c 54	N78-17677 *
US-PATENT-3,437,959	c 07	N69-24323 *	#	US-PATENT-3,465,584	c 14	N71-23726 *	#	US-PATENT-3,490,130	c 05	N71-12345 *
US-PATENT-3,438,044	c 07	N69-27460 *	#	US-PATENT-3,465,638	c 11	N71-18578 *	#	US-PATENT-3,490,205	c 14	N71-17588 *
US-PATENT-3,438,263	c 14	N71-20435 *	#	US-PATENT-3,465,986	c 31	N71-20396 *	#	US-PATENT-3,490,235	c 28	N71-14044 *
US-PATENT-3,438,886	c 31	N69-27499 *	#	US-PATENT-3,466,052	c 15	N71-19570 *	#	US-PATENT-3,490,238	c 15	N70-22192 *
US-PATENT-3,440,419	c 14	N73-28491 *	#	US-PATENT-3,466,085	c 05	N71-12343 *	#	US-PATENT-3,490,405	c 15	N71-15597 *
US-PATENT-3,442,674	c 25	N82-29370 *	#	US-PATENT-3,466,198	c 03	N71-19545 *	#	US-PATENT-3,490,440	c 05	N71-12346 *
US-PATENT-3,443,128	c 03	N69-39890 *	#	US-PATENT-3,466,243	c 15	N71-23810 *	#	US-PATENT-3,490,718	c 33	N71-14035 *
US-PATENT-3,443,208	c 14	N71-20428 *	#	US-PATENT-3,466,418	c 15	N71-18613 *	#	US-PATENT-3,490,719	c 21	N71-14159 *
US-PATENT-3,443,384	c 28	N71-24321 *	#	US-PATENT-3,466,424	c 15	N71-20395 *	#	US-PATENT-3,490,721	c 02	N71-11039 *
US-PATENT-3,443,390	c 11	N71-24964 *	#	US-PATENT-3,466,459	c 09	N71-26000 *	#	US-PATENT-3,490,939	c 33	N71-14032 *
US-PATENT-3,443,412	c 15	N71-23811 *	#	US-PATENT-3,466,484	c 14	N71-18482 *	#	US-PATENT-3,490,965	c 09	N71-12513 *
US-PATENT-3,443,416	c 06	N69-39936 *	#	US-PATENT-3,466,560	c 09	N71-19466 *	#	US-PATENT-3,491,202	c 07	N71-12392 *
US-PATENT-3,443,472	c 15	N71-23254 *	#	US-PATENT-3,466,570	c 10	N71-25950 *	#	US-PATENT-3,491,255	c 09	N71-12514 *
US-PATENT-3,443,583	c 14	N71-18625 *	#	US-PATENT-3,467,837	c 05	N71-23317 *	#	US-PATENT-3,491,335	c 14	N71-15620 *
US-PATENT-3,443,584	c 32	N71-16106 *	#	US-PATENT-3,468,303	c 09	N71-26002 *	#	US-PATENT-3,491,857	c 14	N71-17626 *
US-PATENT-3,443,732	c 15	N71-15607 *	#	US-PATENT-3,468,548	c 15	N71-26294 *	#	US-PATENT-3,492,176	c 27	N71-14090 *
US-PATENT-3,443,773	c 31	N71-23912 *	#	US-PATENT-3,468,609	c 16	N71-24170 *	#	US-PATENT-3,492,672	c 05	N71-12344 *
US-PATENT-3,443,779	c 01	N69-39981 *	#	US-PATENT-3,468,727	c 14	N71-25892 *	#	US-PATENT-3,492,739	c 15	N71-15571 *
US-PATENT-3,444,051	c 05	N71-11207 *	#	US-PATENT-3,468,765	c 17	N71-25903 *	#	US-PATENT-3,492,858	c 35	N78-17358 *
US-PATENT-3,444,127	c 06	N71-11237 *	#	US-PATENT-3,469,068	c 15	N71-23815 *	#	US-PATENT-3,492,862	c 14	N71-15600 *
US-PATENT-3,444,375	c 14	N71-15599 *	#	US-PATENT-3,469,069	c 15	N71-23798 *	#	US-PATENT-3,492,947	c 28	N71-14058 *
US-PATENT-3,444,380	c 07	N69-39980 *	#	US-PATENT-3,469,087	c 16	N71-25914 *	#	US-PATENT-3,493,003	c 15	N71-15609 *
US-PATENT-3,446,075	c 14	N73-30394 *	#	US-PATENT-3,469,143	c 33	N75-29318 *	#	US-PATENT-3,493,004	c 12	N71-17579 *
US-PATENT-3,446,387	c 15	N69-39935 *	#	US-PATENT-3,469,289	c 15	N71-25975 *	#	US-PATENT-3,493,012	c 15	N71-15608 *
US-PATENT-3,446,558	c 16	N71-24074 *	#	US-PATENT-3,469,375	c 14	N71-18483 *	#	US-PATENT-3,493,027	c 31	N71-18611 *
US-PATENT-3,446,642	c 18	N69-39895 *	#	US-PATENT-3,469,436	c 15	N71-23817 *	#	US-PATENT-3,493,153	c 05	N71-12351 *
US-PATENT-3,446,676	c 03	N71-11050 *	#	US-PATENT-3,469,437	c 14	N71-24234 *	#	US-PATENT-3,493,155	c 26	N71-14354 *
US-PATENT-3,446,960	c 14	N69-39982 *	#	US-PATENT-3,469,734	c 11	N71-17600 *	#	US-PATENT-3,493,194	c 21	N71-14132 *
US-PATENT-3,446,992	c 09	N69-39987 *	#	US-PATENT-3,470,043	c 15	N71-24047 *	#	US-PATENT-3,493,197	c 02	N71-11043 *
US-PATENT-3,446,997	c 03	N69-39898 *	#	US-PATENT-3,470,304	c 14	N71-23267 *	#	US-PATENT-3,493,291	c 14	N71-15622 *
US-PATENT-3,446,998	c 09	N69-39929 *	#	US-PATENT-3,470,313	c 07	N71-26579 *	#	US-PATENT-3,493,294	c 14	N71-15605 *
US-PATENT-3,447,003	c 09	N71-20446 *	#	US-PATENT-3,470,318	c 07	N71-24612 *	#	US-PATENT-3,493,401	c 18	N71-14014 *
US-PATENT-3,447,015	c 06	N69-39889 *	#	US-PATENT-3,470,342	c 09	N71-19610 *	#	US-PATENT-3,493,415	c 15	N71-15610 *
US-PATENT-3,447,071	c 25	N69-39884 *	#	US-PATENT-3,470,443	c 03	N71-23239 *	#	US-PATENT-3,493,437	c 03	N71-11056 *
US-PATENT-3,447,154	c 21	N71-11766 *	#	US-PATENT-3,470,446	c 09	N71-23188 *	#	US-PATENT-3,493,522	c 06	N71-11243 *
US-PATENT-3,447,155	c 09	N71-18598 *	#	US-PATENT-3,470,466	c 14	N71-23699 *	#	US-PATENT-3,493,524	c 06	N71-11242 *
US-PATENT-3,447,233	c 15	N69-39786 *	#	US-PATENT-3,470,475	c 10	N71-19467 *	#	US-PATENT-3,493,665	c 14	N71-15621 *
US-PATENT-3,447,774	c 15	N71-19485 *	#	US-PATENT-3,470,489	c 09	N71-23598 *	#	US-PATENT-3,493,677	c 07	N71-11300 *
US-PATENT-3,447,850	c 09	N71-18600 *	#	US-PATENT-3,470,495	c 10	N71-23669 *	#	US-PATENT-3,493,711	c 15	N71-14932 *
US-PATENT-3,448,273	c 07	N69-39736 *	#	US-PATENT-3,470,496	c 09	N71-19470 *	#	US-PATENT-3,493,746	c 15	N71-15606 *
US-PATENT-3,448,290	c 10	N71-23315 *	#	US-PATENT-3,471,856	c 30	N71-16090 *	#	US-PATENT-3,493,797	c 15	N71-17652 *
US-PATENT-3,448,341	c 09	N71-12526 *	#	US-PATENT-3,471,858	c 07	N71-12391 *	#	US-PATENT-3,493,805	c 09	N71-12521 *
US-PATENT-3,448,346	c 15	N71-18701 *	#	US-PATENT-3,472,019	c 10	N71-26326 *	#	US-PATENT-3,493,901	c 09	N71-12517 *
US-PATENT-3,450,842	c 07	N69-39978								

US-PATENT-3,500,020	c 01	N71-13411 *	#	US-PATENT-3,521,143	c 08	N71-18752 *	US-PATENT-3,535,642	c 08	N71-12503 *	#
US-PATENT-3,500,525	c 15	N71-17688 *	US-PATENT-3,521,290	c 31	N71-16102 *	US-PATENT-3,535,644	c 09	N71-12519 *	#	
US-PATENT-3,500,677	c 14	N71-17584 *	US-PATENT-3,523,228	c 10	N71-24861 *	US-PATENT-3,535,657	c 07	N71-12390 *	#	
US-PATENT-3,500,686	c 12	N71-17569 *	US-PATENT-3,526,030	c 15	N71-17686 *	US-PATENT-3,535,658	c 08	N71-12500 *	#	
US-PATENT-3,500,688	c 14	N71-17587 *	US-PATENT-3,526,134	c 33	N71-16356 *	US-PATENT-3,535,683	c 31	N71-15566 *	#	
US-PATENT-3,500,747	c 09	N71-18599 *	US-PATENT-3,526,139	c 31	N71-16221 *	US-PATENT-3,535,696	c 08	N71-12506 *	#	
US-PATENT-3,500,827	c 05	N71-11203 *	US-PATENT-3,526,140	c 27	N71-16223 *	US-PATENT-3,535,702	c 09	N71-12515 *	#	
US-PATENT-3,501,112	c 15	N71-17693 *	US-PATENT-3,526,359	c 33	N71-16357 *	US-PATENT-3,536,103	c 15	N71-19213 *	#	
US-PATENT-3,501,632	c 27	N71-16348 *	US-PATENT-3,526,365	c 28	N71-16224 *	US-PATENT-3,537,096	c 08	N71-12507 *	#	
US-PATENT-3,501,641	c 20	N71-16340 *	US-PATENT-3,526,372	c 31	N71-16346 *	US-PATENT-3,537,103	c 08	N71-24650 *	#	
US-PATENT-3,501,648	c 10	N71-24799 *	US-PATENT-3,526,382	c 15	N71-17649 *	US-PATENT-3,537,107	c 05	N71-24730 *	#	
US-PATENT-3,501,649	c 10	N71-18723 *	US-PATENT-3,526,460	c 23	N71-16365 *	US-PATENT-3,537,305	c 26	N71-25490 *	#	
US-PATENT-3,501,664	c 14	N71-17585 *	US-PATENT-3,526,473	c 18	N71-15545 *	US-PATENT-3,537,515	c 09	N71-24807 *	#	
US-PATENT-3,501,683	c 15	N71-17694 *	US-PATENT-3,526,580	c 18	N71-16210 *	US-PATENT-3,537,668	c 05	N71-24728 *	#	
US-PATENT-3,501,684	c 09	N71-26092 *	US-PATENT-3,526,611	c 06	N71-11236 *	US-PATENT-3,537,672	c 15	N71-24694 *	#	
US-PATENT-3,501,701	c 08	N71-18692 *	US-PATENT-3,526,845	c 09	N71-13531 *	US-PATENT-3,538,053	c 27	N78-17214 *	#	
US-PATENT-3,501,704	c 07	N71-11282 *	US-PATENT-3,526,897	c 09	N71-13521 *	US-PATENT-3,539,905	c 09	N71-24800 *	#	
US-PATENT-3,501,712	c 09	N71-19516 *	US-PATENT-3,527,724	c 27	N78-33228 *	US-PATENT-3,540,045	c 09	N71-24595 *	#	
US-PATENT-3,501,743	c 09	N71-18843 *	US-PATENT-3,529,480	c 15	N71-17692 *	US-PATENT-3,540,048	c 31	N71-24813 *	#	
US-PATENT-3,501,750	c 08	N71-19288 *	US-PATENT-3,529,928	c 17	N71-16393 *	US-PATENT-3,540,050	c 09	N71-24804 *	#	
US-PATENT-3,501,752	c 08	N71-18595 *	US-PATENT-3,530,336	c 09	N71-13518 *	US-PATENT-3,540,054	c 07	N71-24625 *	#	
US-PATENT-3,501,764	c 10	N71-18722 *	US-PATENT-3,531,964	c 15	N71-18616 *	US-PATENT-3,540,056	c 07	N71-24614 *	#	
US-PATENT-3,502,051	c 15	N71-17647 *	US-PATENT-3,531,978	c 14	N71-18481 *	US-PATENT-3,540,250	c 15	N71-24865 *	#	
US-PATENT-3,502,074	c 05	N71-11190 *	US-PATENT-3,531,982	c 15	N71-18132 *	US-PATENT-3,540,449	c 15	N71-24835 *	#	
US-PATENT-3,502,141	c 33	N71-16277 *	US-PATENT-3,531,989	c 33	N71-15641 *	US-PATENT-3,540,615	c 33	N71-25351 *	#	
US-PATENT-3,503,251	c 32	N71-16428 *	US-PATENT-3,532,118	c 12	N71-18615 *	US-PATENT-3,540,676	c 15	N71-24600 *	#	
US-PATENT-3,504,258	c 10	N71-18724 *	US-PATENT-3,532,128	c 15	N71-18580 *	US-PATENT-3,540,790	c 16	N71-26154 *	#	
US-PATENT-3,504,983	c 23	N71-16341 *	US-PATENT-3,532,427	c 21	N71-19212 *	US-PATENT-3,540,802	c 23	N71-24868 *	#	
US-PATENT-3,506,496	c 44	N82-24645 *	US-PATENT-3,532,428	c 30	N71-15990 *	US-PATENT-3,540,942	c 15	N71-24875 *	#	
US-PATENT-3,507,034	c 15	N71-17650 *	US-PATENT-3,532,538	c 18	N71-16046 *	US-PATENT-3,540,989	c 24	N71-25555 *	#	
US-PATENT-3,507,114	c 27	N71-16392 *	US-PATENT-3,532,551	c 03	N71-11049 *	US-PATENT-3,541,250	c 07	N71-24742 *	#	
US-PATENT-3,507,146	c 05	N71-11202 *	US-PATENT-3,532,568	c 17	N71-16044 *	US-PATENT-3,541,312	c 08	N71-24891 *	#	
US-PATENT-3,507,150	c 20	N71-16281 *	US-PATENT-3,532,673	c 06	N71-11238 *	US-PATENT-3,541,314	c 07	N71-24741 *	#	
US-PATENT-3,507,425	c 15	N71-17628 *	US-PATENT-3,532,807	c 07	N71-19433 *	US-PATENT-3,541,346	c 09	N71-24803 *	#	
US-PATENT-3,507,436	c 08	N71-19420 *	US-PATENT-3,532,819	c 10	N71-19468 *	US-PATENT-3,541,361	c 09	N71-24904 *	#	
US-PATENT-3,507,704	c 03	N71-11052 *	US-PATENT-3,532,866	c 08	N71-18602 *	US-PATENT-3,541,422	c 03	N71-24719 *	#	
US-PATENT-3,507,706	c 03	N71-18698 *	US-PATENT-3,532,880	c 24	N71-16095 *	US-PATENT-3,541,428	c 09	N71-24893 *	#	
US-PATENT-3,508,036	c 08	N71-18693 *	US-PATENT-3,532,894	c 23	N71-16100 *	US-PATENT-3,541,439	c 09	N71-24843 *	#	
US-PATENT-3,508,039	c 08	N71-19437 *	US-PATENT-3,532,948	c 10	N71-18772 *	US-PATENT-3,541,450	c 07	N71-24840 *	#	
US-PATENT-3,508,053	c 09	N71-18830 *	US-PATENT-3,532,960	c 03	N71-12255 *	US-PATENT-3,541,459	c 10	N71-24844 *	#	
US-PATENT-3,508,070	c 03	N71-11057 *	US-PATENT-3,532,973	c 15	N71-17822 *	US-PATENT-3,541,479	c 09	N71-24841 *	#	
US-PATENT-3,508,152	c 07	N71-11266 *	US-PATENT-3,532,975	c 10	N71-19421 *	US-PATENT-3,541,486	c 16	N71-28554 *	#	
US-PATENT-3,508,156	c 07	N71-11267 *	US-PATENT-3,532,979	c 10	N71-12554 *	US-PATENT-3,541,679	c 03	N71-24681 *	#	
US-PATENT-3,508,347	c 05	N71-24606 *	US-PATENT-3,532,985	c 07	N71-19773 *	US-PATENT-3,541,825	c 15	N71-24836 *	#	
US-PATENT-3,508,402	c 33	N71-16104 *	US-PATENT-3,533,001	c 07	N71-24583 *	US-PATENT-3,541,875	c 15	N71-24984 *	#	
US-PATENT-3,508,541	c 05	N71-11193 *	US-PATENT-3,533,006	c 10	N72-28241 *	US-PATENT-3,543,050	c 10	N71-24862 *	#	
US-PATENT-3,508,578	c 32	N71-16103 *	US-PATENT-3,533,074	c 08	N71-12502 *	US-PATENT-3,543,159	c 09	N71-24717 *	#	
US-PATENT-3,508,723	c 31	N71-16222 *	US-PATENT-3,533,093	c 10	N71-19417 *	US-PATENT-3,543,839	c 34	N78-17337 *	#	
US-PATENT-3,508,724	c 02	N71-11037 *	US-PATENT-3,533,098	c 08	N71-18594 *	US-PATENT-3,545,208	c 28	N71-25213 *	#	
US-PATENT-3,508,739	c 15	N71-17648 *	US-PATENT-3,534,365	c 07	N71-19854 *	US-PATENT-3,545,226	c 23	N71-24725 *	#	
US-PATENT-3,508,779	c 15	N71-24897 *	US-PATENT-3,534,367	c 02	N71-19287 *	US-PATENT-3,545,252	c 11	N71-24985 *	#	
US-PATENT-3,508,940	c 18	N71-16124 *	US-PATENT-3,534,375	c 07	N71-11285 *	US-PATENT-3,545,262	c 38	N76-28563 *	#	
US-PATENT-3,508,955	c 18	N71-16105 *	US-PATENT-3,534,376	c 07	N71-26101 *	US-PATENT-3,545,275	c 09	N71-24597 *	#	
US-PATENT-3,508,999	c 15	N71-17687 *	US-PATENT-3,534,406	c 05	N71-11195 *	US-PATENT-3,545,725	c 15	N71-24599 *	#	
US-PATENT-3,509,034	c 14	N71-17575 *	US-PATENT-3,534,407	c 05	N71-11194 *	US-PATENT-3,545,792	c 15	N71-24903 *	#	
US-PATENT-3,509,386	c 03	N71-11055 *	US-PATENT-3,534,479	c 14	N71-17657 *	US-PATENT-3,546,386	c 07	N71-24621 *	#	
US-PATENT-3,509,419	c 24	N71-16213 *	US-PATENT-3,534,480	c 14	N71-17658 *	US-PATENT-3,546,471	c 14	N71-24864 *	#	
US-PATENT-3,509,469	c 23	N71-16099 *	US-PATENT-3,534,485	c 11	N71-18773 *	US-PATENT-3,546,552	c 15	N71-24895 *	#	
US-PATENT-3,509,475	c 09	N71-24596 *	US-PATENT-3,534,555	c 12	N71-17631 *	US-PATENT-3,546,553	c 09	N71-24805 *	#	
US-PATENT-3,509,491	c 09	N71-18721 *	US-PATENT-3,534,584	c 10	N71-13545 *	US-PATENT-3,546,684	c 07	N71-24624 *	#	
US-PATENT-3,509,551	c 08	N71-18694 *	US-PATENT-3,534,585	c 14	N71-17701 *	US-PATENT-3,546,694	c 10	N71-24798 *	#	
US-PATENT-3,509,558	c 08	N71-19435 *	US-PATENT-3,534,592	c 14	N71-17656 *	US-PATENT-3,546,705	c 09	N71-24842 *	#	
US-PATENT-3,509,570	c 09	N71-18720 *	US-PATENT-3,534,596	c 14	N71-17586 *	US-PATENT-3,546,917	c 15	N71-24679 *	#	
US-PATENT-3,509,578	c 07	N71-19493 *	US-PATENT-3,534,597	c 31	N71-15643 *	US-PATENT-3,546,920	c 06	N71-24607 *	#	
US-PATENT-3,511,680	c 31	N79-21227 *	US-PATENT-3,534,650	c 15	N71-17653 *	US-PATENT-3,546,931	c 32	N71-25360 *	#	
US-PATENT-3,512,009	c 08	N71-18751 *	US-PATENT-3,534,686	c 31	N71-15687 *	US-PATENT-3,547,105	c 09	N71-24618 *	#	
US-PATENT-3,514,785	c 54	N78-18761 *	US-PATENT-3,534,727	c 05	N71-11189 *	US-PATENT-3,547,376	c 31	N71-25434 *	#	
US-PATENT-3,516,091	c 05	N71-24623 *	US-PATENT-3,534,765	c 12	N71-17661 *	US-PATENT-3,547,540	c 16	N71-24828 *	#	
US-PATENT-3,516,179	c 11	N71-19494 *	US-PATENT-3,534,826	c 31	N71-15689 *	US-PATENT-3,547,801	c 03	N71-24718 *	#	
US-PATENT-3,516,185	c 12	N71-18603 *	US-PATENT-3,534,836	c 15	N71-17805 *	US-PATENT-3,548,107	c 07	N71-24622 *	#	
US-PATENT-3,516,284	c 12	N71-17573 *	US-PATENT-3,534,909	c 15	N71-17654 *	US-PATENT-3,548,633	c 18	N71-24934 *	#	
US-PATENT-3,516,404	c 05	N71-17599 *	US-PATENT-3,534,924	c 31	N71-15674 *	US-PATENT-3,548,636	c 15	N71-24910 *	#	
US-PATENT-3,516,711	c 05	N71-12341 *	US-PATENT-3,534,925	c 31	N71-15676 *	US-PATENT-3,548,812	c 05	N71-24729 *	#	
US-PATENT-3,516,879	c 23	N71-16212 *	US-PATENT-3,534,926	c 15	N71-19214 *	US-PATENT-3,548,930	c 33	N71-25353 *	#	
US-PATENT-3,516,964	c 06	N71-11240 *	US-PATENT-3,534,930	c 02	N71-13422 *	US-PATENT-3,549,435	c 14	N72-28438 *	#	
US-PATENT-3,516,970	c 06	N71-11239 *	US-PATENT-3,535,012	c 16	N71-15667 *	US-PATENT-3,549,564	c 06	N71-24739 *	#	
US-PATENT-3,516,971	c 06	N71-24740 *	US-PATENT-3,535,013	c 16	N71-15551 *	US-PATENT-3,549,799	c 09	N71-25866 *	#	
US-PATENT-3,517,109	c 07	N71-19436 *	US-PATENT-3,535,014	c 16	N71-15565 *	US-PATENT-3,549,882	c 15	N71-24896 *	#	
US-PATENT-3,517,162	c 33	N71-16278 *	US-PATENT-3,535,024	c 14	N71-17662 *	US-PATENT-3,549,955	c 09	N71-24892 *	#	
US-PATENT-3,517,171	c 08	N71-24633 *	US-PATENT-3,535,041	c 14	N71-17655 *	US-PATENT-3,550,023	c 09	N71-24806 *	#	
US-PATENT-3,517,221	c 10	N71-19547 *	US-PATENT-3,535,110	c 17	N71-15468 *	US-PATENT-3,550,034	c 16	N71-24832 *	#	
US-PATENT-3,517,268	c 10	N71-19469 *	US-PATENT-3,535,130	c 18	N71-15469 *	US-PATENT-3,550,129	c 21	N71-24948 *	#	
US-PATENT-3,517,302	c 25	N71-16073 *	US-PATENT-3,535,165	c 33	N71-15568 *	US-PATENT-3,550,585	c 05	N71-24738 *	#	
US-PATENT-3,517,318	c 08	N71-19432 *	US-PATENT-3,535,179	c 15	N71-17651 *	US-PATENT-3,551,266	c 33	N71-24858 *	#	
US-PATENT-3,517,328	c 16	N71-18614 *	US-PATENT-3,535,352	c 18	N71-15688 *	US-PATENT-3,551,816	c 07	N71-24613 *	#	
US-PATENT-3,518,232	c 06	N71-11235 *	US-PATENT-3,535,446	c 09	N71-12539 *	US-PATENT-3,551,831	c 33	N75-27251 *	#	
US-PATENT-3,519,483	c 44	N82-24644 *	US-PATENT-3,535,451	c 07	N71-11281 *	US-PATENT-3,552,124	c 28	N71-26642 *	#	
US-PATENT-3,519,484	c 44	N82-24643 *	US-PATENT-3,535,497	c 08	N71-24890 *	US-PATENT-3,552,125	c 28	N71-26173 *	#	
US-PATENT-3,520,190	c 10	N71-13537 *	US-PATENT-3,535,543	c 09	N71-13486 *	US-PATENT-3,553,002	c 18	N71-26100 *	#	
US-PATENT-3,520,238	c 14	N71-18465 *	US-PATENT-3,535,547	c 09	N71-12520 *	US-PATENT-3,553,586	c 07	N71-26292 *	#	
US-PATENT-3,520,317	c 12	N71-17578 *	US-PATENT-3,535,554	c 09	N71-12516 *	US-PATENT-3,553,704	c 10	N71-26142 *	#	
US-PATENT-3,520,496	c 31	N71-16345 *	US-PATENT-3,535,560	c 08	N71-12494 *	US-PATENT-3,553,904	c 15	N71-26134 *	#	
US-PATENT-3,520,503	c 31	N71-16085 *	US-PATENT-3,535,562	c 33	N71-27862 *	US-PATENT-3,554,466	c 31	N71-26537 *	#	
US-PATENT-3,520,617	c 23	N71-16101 *	US-PATENT-3,535,570	c 15	N71-24696 *	US-PATENT-3,554,647	c 23	N71-26206 *	#	
US-PATENT-3,520,660	c 23	N71-16355 *	US-PATENT-3,535,586	c 25	N71-15562 *	US-PATENT-3,554,806	c 03	N71-26084 *	#	
US-PATENT-3,521,054	c									

US-PATENT-3,555,361	c 10	N71-26531 *	US-PATENT-3,573,470	c 74	N78-33913 * #	US-PATENT-3,593,194	c 16	N72-12440 *
US-PATENT-3,555,455	c 23	N71-26722 *	US-PATENT-3,573,504	c 33	N78-17294 * #	US-PATENT-3,594,790	c 07	N72-12080 *
US-PATENT-3,555,483	c 35	N77-21393 * #	US-PATENT-3,573,583	c 09	N71-28886 *	US-PATENT-3,594,803	c 09	N72-12136 *
US-PATENT-3,555,867	c 15	N71-26148 *	US-PATENT-3,573,797	c 08	N71-27057 *	US-PATENT-3,596,465	c 28	N72-11708 *
US-PATENT-3,555,898	c 12	N71-26546 *	US-PATENT-3,573,977	c 15	N71-28582 *	US-PATENT-3,596,510	c 14	N72-11363 *
US-PATENT-3,556,048	c 09	N71-26701 *	US-PATENT-3,573,986	c 03	N71-28579 *	US-PATENT-3,596,554	c 15	N72-11385 *
US-PATENT-3,556,634	c 07	N71-26291 *	US-PATENT-3,573,996	c 18	N71-29040 *	US-PATENT-3,596,863	c 15	N72-11386 *
US-PATENT-3,557,027	c 06	N71-25929 *	US-PATENT-3,574,057	c 22	N71-28759 *	US-PATENT-3,597,281	c 03	N72-11062 *
US-PATENT-3,557,534	c 15	N71-26185 *	US-PATENT-3,574,084	c 14	N71-28933 *	US-PATENT-3,598,921	c 08	N72-11171 *
US-PATENT-3,559,031	c 10	N71-26085 *	US-PATENT-3,574,277	c 15	N71-28467 *	US-PATENT-3,599,216	c 07	N72-11148 *
US-PATENT-3,559,096	c 10	N71-25882 *	US-PATENT-3,574,286	c 11	N71-27036 *	US-PATENT-3,599,335	c 08	N72-11172 *
US-PATENT-3,559,460	c 14	N71-26672 *	US-PATENT-3,574,438	c 07	N71-29065 *	US-PATENT-3,599,443	c 05	N72-11084 *
US-PATENT-3,559,937	c 14	N71-26627 *	US-PATENT-3,574,448	c 23	N71-29123 *	US-PATENT-3,599,489	c 14	N72-11365 *
US-PATENT-3,560,081	c 19	N71-26674 *	US-PATENT-3,574,462	c 14	N71-29041 *	US-PATENT-3,600,046	c 15	N72-11388 *
US-PATENT-3,560,161	c 06	N71-26754 *	US-PATENT-3,574,467	c 23	N71-29125 *	US-PATENT-3,600,599	c 33	N78-17296 * #
US-PATENT-3,561,828	c 15	N71-26189 *	US-PATENT-3,574,470	c 14	N71-28993 *	US-PATENT-3,602,920	c 11	N72-17183 * #
US-PATENT-3,562,575	c 09	N71-26182 *	US-PATENT-3,574,770	c 06	N71-27254 *	US-PATENT-3,602,923	c 05	N72-22093 * #
US-PATENT-3,562,631	c 14	N71-26137 *	US-PATENT-3,575,336	c 15	N71-27214 *	US-PATENT-3,602,979	c 15	N72-22492 * #
US-PATENT-3,562,857	c 15	N71-26721 *	US-PATENT-3,575,585	c 14	N71-27058 *	US-PATENT-3,602,984	c 26	N72-17820 * #
US-PATENT-3,562,881	c 09	N71-26678 *	US-PATENT-3,575,597	c 14	N71-27090 *	US-PATENT-3,603,092	c 28	N72-17843 * #
US-PATENT-3,562,919	c 15	N71-26145 *	US-PATENT-3,575,602	c 16	N71-27183 *	US-PATENT-3,603,093	c 28	N72-18766 * #
US-PATENT-3,563,135	c 15	N71-27147 *	US-PATENT-3,575,638	c 09	N71-26133 *	US-PATENT-3,603,260	c 33	N72-17947 * #
US-PATENT-3,563,198	c 18	N71-26285 *	US-PATENT-3,575,641	c 10	N71-26334 *	US-PATENT-3,603,285	c 25	N75-29192 * #
US-PATENT-3,563,232	c 05	N71-27234 *	US-PATENT-3,576,107	c 28	N71-26781 *	US-PATENT-3,603,382	c 33	N72-17948 * #
US-PATENT-3,563,307	c 15	N71-26611 *	US-PATENT-3,576,127	c 14	N71-26161 *	US-PATENT-3,603,433	c 15	N72-17450 * #
US-PATENT-3,563,668	c 14	N71-26788 *	US-PATENT-3,576,135	c 15	N71-26635 *	US-PATENT-3,603,532	c 30	N72-17873 * #
US-PATENT-3,563,727	c 15	N71-27184 *	US-PATENT-3,576,301	c 02	N71-26110 *	US-PATENT-3,603,683	c 14	N72-17326 * #
US-PATENT-3,563,918	c 06	N71-27363 *	US-PATENT-3,576,656	c 18	N71-26772 *	US-PATENT-3,603,686	c 16	N72-13437 * #
US-PATENT-3,564,234	c 09	N71-26787 *	US-PATENT-3,576,669	c 15	N71-26932 *	US-PATENT-3,603,690	c 14	N72-17323 * #
US-PATENT-3,564,401	c 14	N71-26135 *	US-PATENT-3,576,723	c 09	N71-28691 *	US-PATENT-3,603,722	c 07	N72-17109 * #
US-PATENT-3,564,420	c 14	N71-26774 *	US-PATENT-3,576,786	c 06	N71-28620 *	US-PATENT-3,603,772	c 08	N72-22166 * #
US-PATENT-3,564,564	c 15	N71-26162 *	US-PATENT-3,577,014	c 10	N71-28860 *	US-PATENT-3,603,798	c 09	N72-17152 * #
US-PATENT-3,564,866	c 23	N71-26654 *	US-PATENT-3,577,092	c 07	N71-28430 *	US-PATENT-3,603,864	c 09	N72-17154 * #
US-PATENT-3,564,906	c 32	N71-26681 *	US-PATENT-3,577,356	c 06	N73-30102 * #	US-PATENT-3,603,892	c 09	N72-17155 * #
US-PATENT-3,565,530	c 15	N71-26673 *	US-PATENT-3,578,755	c 14	N71-29134 *	US-PATENT-3,603,946	c 09	N72-17153 * #
US-PATENT-3,565,584	c 15	N71-27372 *	US-PATENT-3,578,756	c 11	N71-28629 *	US-PATENT-3,603,974	c 14	N72-18411 * #
US-PATENT-3,565,607	c 17	N71-26773 *	US-PATENT-3,578,758	c 14	N71-28992 *	US-PATENT-3,603,976	c 08	N72-18184 * #
US-PATENT-3,565,719	c 03	N71-26726 *	US-PATENT-3,578,838	c 16	N71-29131 *	US-PATENT-3,605,032	c 10	N72-17172 * #
US-PATENT-3,566,027	c 07	N71-27341 *	US-PATENT-3,578,867	c 14	N71-28994 *	US-PATENT-3,605,424	c 15	N72-17453 * #
US-PATENT-3,566,045	c 08	N71-27210 *	US-PATENT-3,578,957	c 08	N71-29033 *	US-PATENT-3,605,482	c 14	N72-16282 * #
US-PATENT-3,566,122	c 14	N71-27323 *	US-PATENT-3,578,988	c 09	N71-29139 *	US-PATENT-3,605,495	c 14	N72-17327 * #
US-PATENT-3,566,143	c 14	N71-27407 *	US-PATENT-3,578,992	c 09	N71-28421 *	US-PATENT-3,605,519	c 14	N72-17324 * #
US-PATENT-3,566,158	c 10	N71-27126 * #	US-PATENT-3,579,041	c 09	N71-29008 *	US-PATENT-3,606,212	c 31	N72-18859 * #
US-PATENT-3,566,268	c 10	N71-26577 *	US-PATENT-3,579,103	c 14	N71-28891 *	US-PATENT-3,606,470	c 46	N74-23068 * #
US-PATENT-3,566,396	c 10	N71-26544 *	US-PATENT-3,579,122	c 08	N71-29034 *	US-PATENT-3,606,522	c 23	N72-23695 * #
US-PATENT-3,566,459	c 14	N71-27334 *	US-PATENT-3,579,146	c 08	N71-29138 *	US-PATENT-3,606,979	c 15	N72-17454 * #
US-PATENT-3,566,676	c 14	N71-26199 *	US-PATENT-3,579,147	c 07	N71-28429 *	US-PATENT-3,607,015	c 06	N72-17093 * #
US-PATENT-3,566,993	c 15	N71-27169 *	US-PATENT-3,579,168	c 09	N71-29035 *	US-PATENT-3,607,076	c 06	N72-17094 * #
US-PATENT-3,567,155	c 21	N71-27324 *	US-PATENT-3,579,242	c 07	N71-28980 *	US-PATENT-3,607,080	c 06	N72-17095 * #
US-PATENT-3,567,339	c 15	N71-27084 *	US-PATENT-3,579,390	c 18	N71-28729 *	US-PATENT-3,607,338	c 18	N72-17532 * #
US-PATENT-3,567,651	c 18	N71-27170 *	US-PATENT-3,579,412	c 17	N71-28747 *	US-PATENT-3,607,401	c 03	N72-15986 * #
US-PATENT-3,567,677	c 18	N71-25881 *	US-PATENT-3,581,492	c 28	N71-28915 *	US-PATENT-3,607,495	c 15	N72-16330 * #
US-PATENT-3,567,861	c 10	N71-25865 *	US-PATENT-3,582,828	c 33	N77-21314 * #	US-PATENT-3,608,046	c 15	N72-16329 * #
US-PATENT-3,567,913	c 10	N71-27137 *	US-PATENT-3,582,960	c 09	N71-28618 *	US-PATENT-3,608,365	c 15	N72-17452 * #
US-PATENT-3,567,927	c 14	N71-28863 *	US-PATENT-3,583,058	c 15	N71-29018 *	US-PATENT-3,608,409	c 14	N72-16283 * #
US-PATENT-3,568,010	c 09	N71-27232 *	US-PATENT-3,583,239	c 15	N71-29132 *	US-PATENT-3,608,844	c 15	N72-18477 * #
US-PATENT-3,568,028	c 10	N71-27136 *	US-PATENT-3,583,322	c 05	N71-28619 *	US-PATENT-3,609,230	c 09	N72-17156 * #
US-PATENT-3,568,103	c 10	N71-25900 *	US-PATENT-3,583,419	c 12	N71-28741 *	US-PATENT-3,609,271	c 09	N72-22204 * #
US-PATENT-3,568,197	c 07	N71-27056 *	US-PATENT-3,583,744	c 15	N71-29133 *	US-PATENT-3,609,327	c 08	N72-22167 * #
US-PATENT-3,568,447	c 15	N71-27432 *	US-PATENT-3,583,777	c 15	N71-28465 *	US-PATENT-3,609,353	c 14	N72-17328 * #
US-PATENT-3,568,572	c 15	N71-27754 *	US-PATENT-3,583,815	c 15	N71-28740 *	US-PATENT-3,609,364	c 10	N72-17173 * #
US-PATENT-3,568,702	c 10	N71-25899 *	US-PATENT-3,584,311	c 09	N71-28468 *	US-PATENT-3,609,387	c 09	N72-17157 * #
US-PATENT-3,568,748	c 15	N71-27091 *	US-PATENT-3,584,660	c 15	N72-12408 *	US-PATENT-3,609,535	c 14	N72-17325 * #
US-PATENT-3,568,795	c 15	N71-27067 *	US-PATENT-3,585,514	c 10	N71-33129 *	US-PATENT-3,609,567	c 10	N72-17171 * #
US-PATENT-3,568,805	c 15	N71-27146 *	US-PATENT-3,585,882	c 15	N71-33518 *	US-PATENT-3,609,740	c 05	N72-16015 * #
US-PATENT-3,568,874	c 15	N71-27068 *	US-PATENT-3,586,261	c 31	N71-33160 *	US-PATENT-3,610,365	c 15	N72-17451 * #
US-PATENT-3,568,885	c 14	N71-27005 *	US-PATENT-3,587,306	c 11	N71-33612 *	US-PATENT-3,611,274	c 15	N72-17455 * #
US-PATENT-3,569,710	c 14	N71-25901 *	US-PATENT-3,587,424	c 16	N71-33410 *	US-PATENT-3,611,330	c 23	N72-17747 * #
US-PATENT-3,569,744	c 09	N71-27016 *	US-PATENT-3,588,220	c 23	N71-33229 *	US-PATENT-3,611,798	c 14	N72-22437 * #
US-PATENT-3,569,804	c 09	N71-25999 *	US-PATENT-3,588,331	c 07	N72-12081 *	US-PATENT-3,611,801	c 14	N72-17329 * #
US-PATENT-3,569,827	c 18	N71-27397 *	US-PATENT-3,588,359	c 07	N71-33108 *	US-PATENT-3,612,030	c 46	N74-23069 * #
US-PATENT-3,569,828	c 14	N71-27186 *	US-PATENT-3,588,483	c 08	N71-33110 *	US-PATENT-3,612,391	c 11	N72-22245 * #
US-PATENT-3,569,866	c 10	N71-27271 *	US-PATENT-3,588,648	c 07	N71-33613 *	US-PATENT-3,612,442	c 28	N72-22769 * #
US-PATENT-3,569,875	c 07	N71-27191 *	US-PATENT-3,588,671	c 09	N71-33109 *	US-PATENT-3,612,645	c 14	N72-22441 * #
US-PATENT-3,569,956	c 10	N71-25917 *	US-PATENT-3,588,705	c 07	N71-33696 *	US-PATENT-3,612,743	c 09	N72-22198 * #
US-PATENT-3,569,976	c 07	N71-27233 *	US-PATENT-3,588,751	c 07	N71-33606 *	US-PATENT-3,612,895	c 09	N72-22197 * #
US-PATENT-3,570,143	c 10	N71-27365 *	US-PATENT-3,588,874	c 09	N71-33519 *	US-PATENT-3,613,110	c 08	N72-21199 * #
US-PATENT-3,570,364	c 28	N71-26779 *	US-PATENT-3,588,883	c 10	N71-33407 *	US-PATENT-3,613,111	c 08	N72-21200 * #
US-PATENT-3,570,513	c 12	N71-27332 *	US-PATENT-3,591,420	c 03	N71-33409 *	US-PATENT-3,613,370	c 28	N72-22770 * #
US-PATENT-3,570,785	c 28	N71-27585 *	US-PATENT-3,591,426	c 17	N71-33408 *	US-PATENT-3,613,454	c 35	N72-27368 * #
US-PATENT-3,570,789	c 02	N71-27088 *	US-PATENT-3,591,885	c 15	N72-11390 *	US-PATENT-3,613,457	c 15	N72-22482 * #
US-PATENT-3,571,555	c 15	N71-27135 *	US-PATENT-3,591,960	c 15	N72-12409 *	US-PATENT-3,613,794	c 12	N72-21310 * #
US-PATENT-3,571,656	c 09	N71-27001 *	US-PATENT-3,591,967	c 28	N72-11709 *	US-PATENT-3,614,228	c 14	N72-21409 * #
US-PATENT-3,571,662	c 10	N71-27366 *	US-PATENT-3,592,422	c 15	N72-11391 *	US-PATENT-3,614,327	c 08	N72-22162 * #
US-PATENT-3,571,693	c 09	N71-27364 *	US-PATENT-3,592,478	c 09	N72-11224 *	US-PATENT-3,614,343	c 07	N72-21119 * #
US-PATENT-3,571,699	c 09	N71-27053 *	US-PATENT-3,592,505	c 05	N72-11085 *	US-PATENT-3,614,431	c 14	N72-21408 * #
US-PATENT-3,571,700	c 14	N71-27325 *	US-PATENT-3,592,545	c 14	N72-11364 *	US-PATENT-3,614,475	c 10	N72-16172 * #
US-PATENT-3,571,707	c 10	N71-27338 *	US-PATENT-3,592,559	c 02	N72-11018 *	US-PATENT-3,614,557	c 26	N72-21701 * #
US-PATENT-3,571,800	c 10	N71-27272 *	US-PATENT-3,592,628	c 15	N72-11387 *	US-PATENT-3,614,587	c 09	N72-22196 * #
US-PATENT-3,571,801	c 08	N71-27255 *	US-PATENT-3,592,768	c 15	N72-11389 *	US-PATENT-3,614,648	c 09	N72-21247 * #
US-PATENT-3,572,089	c 14	N71-27185 *	US-PATENT-3,593,001	c 15	N72-11392 *	US-PATENT-3,614,772	c 08	N72-22163 * #
US-PATENT-3,572,104	c 28	N71-27094 *	US-PATENT-3,593,024	c 24	N72-11595 *	US-PATENT-3,614,898	c 15	N72-21462 * #
US-PATENT-3,572,112	c 15	N71-27006 *	US-PATENT-3,593,132	c 09	N72-11225 *	US-PATENT-3,614,899	c 09	N72-22195 * #
US-PATENT-3,572,610	c 28	N71-27095 *	US-PATENT-3,593,138	c 07	N72-11149 *	US-PATENT-3,615,021	c 15	N72-22483 * #
US-PATENT-3,572,935	c 14	N71-27215 *	US-PATENT-3,593,175	c 10	N72-11256 *	US-PATENT-3,615,241	c 15	N72-21465 * #
US-PATENT-3,573,078	c 27	N82-29451 * #	US-PATENT-3,593,180	c 07	N72-11150 *	US-PATENT-3,615,465	c 06	N72-21094 * #

US-PATENT-3,615,853	c 03	N72-22042 *	#	US-PATENT-3,640,256	c 28	N72-22772 *	#	US-PATENT-3,667,044	c 07	N72-25171 *	#
US-PATENT-3,616,338	c 15	N72-21466 *	#	US-PATENT-3,641,470	c 35	N78-17359 *	#	US-PATENT-3,668,956	c 15	N72-27485 *	#
US-PATENT-3,616,528	c 03	N72-22041 *	#	US-PATENT-3,647,276	c 14	N72-22444 *	#	US-PATENT-3,669,110	c 05	N72-27103 *	#
US-PATENT-3,617,804	c 25	N72-24753 *	#	US-PATENT-3,647,529	c 27	N74-23125 *	#	US-PATENT-3,669,393	c 15	N72-27484 *	#
US-PATENT-3,619,896	c 15	N72-22487 *	#	US-PATENT-3,647,924	c 11	N72-23215 *	#	US-PATENT-3,670,097	c 23	N72-27728 *	#
US-PATENT-3,619,924	c 11	N72-22247 *	#	US-PATENT-3,648,043	c 09	N72-23173 *	#	US-PATENT-3,670,168	c 14	N72-27409 *	#
US-PATENT-3,620,018	c 28	N72-22771 *	#	US-PATENT-3,648,083	c 12	N72-25292 *	#	US-PATENT-3,670,202	c 14	N72-27411 *	#
US-PATENT-3,620,069	c 14	N72-22440 *	#	US-PATENT-3,648,152	c 03	N72-23048 *	#	US-PATENT-3,670,241	c 14	N72-27408 *	#
US-PATENT-3,620,076	c 11	N72-22246 *	#	US-PATENT-3,648,209	c 09	N72-27226 *	#	US-PATENT-3,670,290	c 09	N72-28225 *	#
US-PATENT-3,620,083	c 14	N72-22438 *	#	US-PATENT-3,648,250	c 09	N72-25248 *	#	US-PATENT-3,670,559	c 33	N72-27959 *	#
US-PATENT-3,620,095	c 15	N72-21463 *	#	US-PATENT-3,648,256	c 08	N72-25207 *	#	US-PATENT-3,670,563	c 14	N72-27412 *	#
US-PATENT-3,620,585	c 15	N72-22490 *	#	US-PATENT-3,648,275	c 08	N72-25206 *	#	US-PATENT-3,670,564	c 11	N72-27262 *	#
US-PATENT-3,620,595	c 14	N72-22445 *	#	US-PATENT-3,648,461	c 28	N72-23810 *	#	US-PATENT-3,670,890	c 05	N72-27102 *	#
US-PATENT-3,620,606	c 23	N72-22673 *	#	US-PATENT-3,648,516	c 35	N74-22095 *	#	US-PATENT-3,671,105	c 26	N72-27784 *	#
US-PATENT-3,620,718	c 17	N72-22535 *	#	US-PATENT-3,649,242	c 15	N72-25448 *	#	US-PATENT-3,671,329	c 14	N72-27410 *	#
US-PATENT-3,620,784	c 18	N72-23581 *	#	US-PATENT-3,649,353	c 26	N72-28762 *	#	US-PATENT-3,671,497	c 06	N72-27144 *	#
US-PATENT-3,620,791	c 18	N72-22566 *	#	US-PATENT-3,649,356	c 15	N72-25447 *	#	US-PATENT-3,671,798	c 10	N72-27246 *	#
US-PATENT-3,620,846	c 31	N72-22874 *	#	US-PATENT-3,649,462	c 11	N72-25284 *	#	US-PATENT-3,672,999	c 03	N72-27053 *	#
US-PATENT-3,621,130	c 08	N72-22164 *	#	US-PATENT-3,649,907	c 09	N72-23172 *	#	US-PATENT-3,673,424	c 09	N72-27227 *	#
US-PATENT-3,621,193	c 15	N72-23497 *	#	US-PATENT-3,649,921	c 05	N72-23085 *	#	US-PATENT-3,673,440	c 09	N72-27228 *	#
US-PATENT-3,621,194	c 15	N72-22491 *	#	US-PATENT-3,649,935	c 07	N72-25170 *	#	US-PATENT-3,675,332	c 14	N72-28436 *	#
US-PATENT-3,621,228	c 08	N72-22165 *	#	US-PATENT-3,650,095	c 14	N72-23457 *	#	US-PATENT-3,675,376	c 15	N72-28496 *	#
US-PATENT-3,621,277	c 10	N72-22236 *	#	US-PATENT-3,650,474	c 28	N72-23809 *	#	US-PATENT-3,675,712	c 03	N72-28025 *	#
US-PATENT-3,621,285	c 09	N72-22200 *	#	US-PATENT-3,651,008	c 27	N81-24258 *	#	US-PATENT-3,675,910	c 17	N72-28535 *	#
US-PATENT-3,621,287	c 09	N72-22201 *	#	US-PATENT-3,653,052	c 09	N72-25247 *	#	US-PATENT-3,675,935	c 15	N72-29488 *	#
US-PATENT-3,621,290	c 09	N72-22202 *	#	US-PATENT-3,653,882	c 18	N72-25539 *	#	US-PATENT-3,676,084	c 17	N72-28536 *	#
US-PATENT-3,621,294	c 09	N72-23171 *	#	US-PATENT-3,653,970	c 03	N72-24037 *	#	US-PATENT-3,676,674	c 14	N72-29464 *	#
US-PATENT-3,621,330	c 33	N77-21316 *	#	US-PATENT-3,654,036	c 03	N72-25019 *	#	US-PATENT-3,676,754	c 26	N72-28761 *	#
US-PATENT-3,621,362	c 09	N72-22203 *	#	US-PATENT-3,655,814	c 27	N81-15104 *	#	US-PATENT-3,676,772	c 10	N72-28240 *	#
US-PATENT-3,621,372	c 09	N72-25249 *	#	US-PATENT-3,656,313	c 23	N72-25619 *	#	US-PATENT-3,676,787	c 16	N72-28521 *	#
US-PATENT-3,621,406	c 09	N72-33204 *	#	US-PATENT-3,656,317	c 33	N72-25911 *	#	US-PATENT-3,676,809	c 09	N72-29172 *	#
US-PATENT-3,621,407	c 09	N72-21245 *	#	US-PATENT-3,656,352	c 14	N72-25411 *	#	US-PATENT-3,678,191	c 10	N72-31273 *	#
US-PATENT-3,621,565	c 09	N72-22199 *	#	US-PATENT-3,656,781	c 15	N72-25450 *	#	US-PATENT-3,678,654	c 06	N72-31140 *	#
US-PATENT-3,623,030	c 08	N72-21198 *	#	US-PATENT-3,657,190	c 23	N82-29358 *	#	US-PATENT-3,678,685	c 21	N72-31637 *	#
US-PATENT-3,623,094	c 10	N72-22235 *	#	US-PATENT-3,657,549	c 14	N72-25409 *	#	US-PATENT-3,678,771	c 37	N74-23070 *	#
US-PATENT-3,623,107	c 07	N72-21117 *	#	US-PATENT-3,657,644	c 14	N72-24477 *	#	US-PATENT-3,679,360	c 04	N72-33072 *	#
US-PATENT-3,623,114	c 07	N72-22127 *	#	US-PATENT-3,657,928	c 14	N72-25410 *	#	US-PATENT-3,679,899	c 06	N72-31141 *	#
US-PATENT-3,623,359	c 35	N77-27367 *	#	US-PATENT-3,658,295	c 15	N72-25451 *	#	US-PATENT-3,680,142	c 09	N72-31235 *	#
US-PATENT-3,623,360	c 14	N72-21405 *	#	US-PATENT-3,658,569	c 15	N72-25452 *	#	US-PATENT-3,680,144	c 07	N72-32169 *	#
US-PATENT-3,623,361	c 14	N72-21407 *	#	US-PATENT-3,658,608	c 27	N72-25699 *	#	US-PATENT-3,680,830	c 15	N72-31483 *	#
US-PATENT-3,623,394	c 15	N72-22488 *	#	US-PATENT-3,658,974	c 15	N72-24522 *	#	US-PATENT-3,681,581	c 08	N72-31226 *	#
US-PATENT-3,623,828	c 15	N72-22489 *	#	US-PATENT-3,659,043	c 14	N72-25412 *	#	US-PATENT-3,686,542	c 14	N72-31446 *	#
US-PATENT-3,623,861	c 17	N72-22530 *	#	US-PATENT-3,659,053	c 08	N72-25208 *	#	US-PATENT-3,690,291	c 15	N72-32487 *	#
US-PATENT-3,624,496	c 15	N72-21464 *	#	US-PATENT-3,659,148	c 09	N72-25250 *	#	US-PATENT-3,692,533	c 05	N72-33096 *	#
US-PATENT-3,624,598	c 21	N72-22619 *	#	US-PATENT-3,659,184	c 09	N72-25251 *	#	US-PATENT-3,693,002	c 25	N72-32688 *	#
US-PATENT-3,624,650	c 07	N72-21118 *	#	US-PATENT-3,659,225	c 16	N72-25485 *	#	US-PATENT-3,693,105	c 10	N72-33230 *	#
US-PATENT-3,624,659	c 09	N72-21246 *	#	US-PATENT-3,659,292	c 08	N72-25209 *	#	US-PATENT-3,693,346	c 15	N72-33477 *	#
US-PATENT-3,624,839	c 05	N72-20098 *	#	US-PATENT-3,660,240	c 06	N72-25149 *	#	US-PATENT-3,693,418	c 14	N72-33377 *	#
US-PATENT-3,625,018	c 15	N72-22484 *	#	US-PATENT-3,660,434	c 06	N72-25148 *	#	US-PATENT-3,694,041	c 15	N72-33476 *	#
US-PATENT-3,625,084	c 15	N72-22485 *	#	US-PATENT-3,660,704	c 15	N72-25456 *	#	US-PATENT-3,694,094	c 14	N72-32452 *	#
US-PATENT-3,625,766	c 03	N72-20032 *	#	US-PATENT-3,660,851	c 05	N72-25119 *	#	US-PATENT-3,694,313	c 24	N72-33681 *	#
US-PATENT-3,626,114	c 35	N79-16246 *	#	US-PATENT-3,662,337	c 08	N72-25210 *	#	US-PATENT-3,694,581	c 08	N72-33172 *	#
US-PATENT-3,626,189	c 14	N72-20381 *	#	US-PATENT-3,662,441	c 05	N72-25121 *	#	US-PATENT-3,694,655	c 25	N72-33696 *	#
US-PATENT-3,626,218	c 14	N72-22439 *	#	US-PATENT-3,662,547	c 15	N72-25455 *	#	US-PATENT-3,694,700	c 09	N72-33205 *	#
US-PATENT-3,626,298	c 07	N72-20140 *	#	US-PATENT-3,662,804	c 13	N72-25323 *	#	US-PATENT-3,694,753	c 07	N72-33146 *	#
US-PATENT-3,626,308	c 10	N72-20223 *	#	US-PATENT-3,662,661	c 31	N72-25842 *	#	US-PATENT-3,694,771	c 09	N73-15235 *	#
US-PATENT-3,626,828	c 14	N72-20380 *	#	US-PATENT-3,662,744	c 05	N72-25122 *	#	US-PATENT-3,695,101	c 11	N73-12684 *	#
US-PATENT-3,628,113	c 37	N77-27400 *	#	US-PATENT-3,662,973	c 21	N72-25595 *	#	US-PATENT-3,696,418	c 09	N73-12211 *	#
US-PATENT-3,629,068	c 22	N72-20597 *	#	US-PATENT-3,663,346	c 18	N72-25541 *	#	US-PATENT-3,696,833	c 11	N73-12265 *	#
US-PATENT-3,629,161	c 18	N72-22567 *	#	US-PATENT-3,663,347	c 18	N72-25540 *	#	US-PATENT-3,697,021	c 15	N73-12486 *	#
US-PATENT-3,630,276	c 33	N72-20915 *	#	US-PATENT-3,663,464	c 06	N72-25147 *	#	US-PATENT-3,697,630	c 15	N73-12489 *	#
US-PATENT-3,630,304	c 11	N72-20244 *	#	US-PATENT-3,663,521	c 06	N72-25152 *	#	US-PATENT-3,697,705	c 35	N77-21392 *	#
US-PATENT-3,630,627	c 03	N72-20033 *	#	US-PATENT-3,663,753	c 14	N72-25414 *	#	US-PATENT-3,697,733	c 08	N73-12176 *	#
US-PATENT-3,631,339	c 08	N72-20177 *	#	US-PATENT-3,663,828	c 09	N72-25262 *	#	US-PATENT-3,697,950	c 08	N73-12177 *	#
US-PATENT-3,631,351	c 10	N72-20224 *	#	US-PATENT-3,663,839	c 09	N72-25260 *	#	US-PATENT-3,697,968	c 21	N73-13644 *	#
US-PATENT-3,631,382	c 09	N72-20200 *	#	US-PATENT-3,663,843	c 09	N72-25255 *	#	US-PATENT-3,698,385	c 05	N73-13114 *	#
US-PATENT-3,631,737	c 15	N72-28495 *	#	US-PATENT-3,663,885	c 09	N72-25257 *	#	US-PATENT-3,698,412	c 14	N73-13418 *	#
US-PATENT-3,632,081	c 15	N72-20442 *	#	US-PATENT-3,663,886	c 09	N72-25258 *	#	US-PATENT-3,698,659	c 11	N73-13257 *	#
US-PATENT-3,632,140	c 15	N72-20445 *	#	US-PATENT-3,663,929	c 09	N72-25256 *	#	US-PATENT-3,698,667	c 02	N73-13008 *	#
US-PATENT-3,632,242	c 15	N72-20446 *	#	US-PATENT-3,663,938	c 03	N72-25020 *	#	US-PATENT-3,698,848	c 15	N73-13464 *	#
US-PATENT-3,632,923	c 09	N72-20199 *	#	US-PATENT-3,663,940	c 09	N72-25252 *	#	US-PATENT-3,699,511	c 21	N73-13643 *	#
US-PATENT-3,632,996	c 08	N72-20176 *	#	US-PATENT-3,663,941	c 09	N72-25253 *	#	US-PATENT-3,699,645	c 14	N73-13417 *	#
US-PATENT-3,633,048	c 10	N72-20221 *	#	US-PATENT-3,663,944	c 09	N72-25254 *	#	US-PATENT-3,699,799	c 15	N73-13463 *	#
US-PATENT-3,633,110	c 07	N72-20141 *	#	US-PATENT-3,664,185	c 15	N72-26371 *	#	US-PATENT-3,699,807	c 14	N73-13416 *	#
US-PATENT-3,634,383	c 27	N73-22710 *	#	US-PATENT-3,664,874	c 09	N72-25259 *	#	US-PATENT-3,699,811	c 14	N73-13415 *	#
US-PATENT-3,635,216	c 05	N72-20096 *	#	US-PATENT-3,665,064	c 05	N72-25120 *	#	US-PATENT-3,700,005	c 15	N73-13462 *	#
US-PATENT-3,635,537	c 33	N80-14330 *	#	US-PATENT-3,665,307	c 15	N72-25457 *	#	US-PATENT-3,700,192	c 31	N73-13898 *	#
US-PATENT-3,635,765	c 03	N72-20034 *	#	US-PATENT-3,665,313	c 07	N72-25173 *	#	US-PATENT-3,700,193	c 30	N73-12884 *	#
US-PATENT-3,636,539	c 03	N72-20031 *	#	US-PATENT-3,665,417	c 07	N72-25172 *	#	US-PATENT-3,700,291	c 15	N73-12488 *	#
US-PATENT-3,636,564	c 05	N72-22092 *	#	US-PATENT-3,665,467	c 14	N72-28437 *	#	US-PATENT-3,700,334	c 14	N73-12446 *	#
US-PATENT-3,636,623	c 15	N72-20444 *	#	US-PATENT-3,665,481	c 07	N72-25174 *	#	US-PATENT-3,700,503	c 14	N73-12447 *	#
US-PATENT-3,636,711	c 28	N72-20758 *	#	US-PATENT-3,665,589	c 09	N72-25261 *	#	US-PATENT-3,700,538	c 18	N73-12604 *	#
US-PATENT-3,636,966	c 05	N72-20097 *	#	US-PATENT-3,665,599	c 15	N72-25454 *	#	US-PATENT-3,700,575	c 15	N73-12487 *	#
US-PATENT-3,637,051	c 15	N72-20443 *	#	US-PATENT-3,665,670	c 11	N72-25287 *	#	US-PATENT-3,700,603	c 14	N73-14428 *	#
US-PATENT-3,637,170	c 21	N72-21624 *	#	US-PATENT-3,665,750	c 33	N72-25913 *	#	US-PATENT-3,700,812	c 10	N73-12244 *	#
US-PATENT-3,637,312	c 14	N72-20379 *	#	US-PATENT-3,665,751	c 32	N72-25877 *	#	US-PATENT-3,700,868	c 09	N73-13209 *	#
US-PATENT-3,637,842	c 06	N72-20121 *	#	US-PATENT-3,665,758	c 11	N72-25288 *	#	US-PATENT-3,700,869	c 08	N73-12175 *	#
US-PATENT-3,6											

US-PATENT-3,702,575	c 15	N73-13466 *	#	US-PATENT-3,736,956	c 15	N73-26472 *	#	US-PATENT-3,758,877	c 16	N73-32391 *	#
US-PATENT-3,702,688	c 31	N73-14854 *	#	US-PATENT-3,737,117	c 31	N73-26876 *	#	US-PATENT-3,759,152	c 14	N73-32319 *	#
US-PATENT-3,702,735	c 23	N73-13661 *	#	US-PATENT-3,737,118	c 15	N73-25513 *	#	US-PATENT-3,759,249	c 05	N73-32015 *	#
US-PATENT-3,702,762	c 06	N73-13129 *	#	US-PATENT-3,737,121	c 02	N73-26005 *	#	US-PATENT-3,759,443	c 28	N73-32606 *	#
US-PATENT-3,702,775	c 06	N73-13128 *	#	US-PATENT-3,737,181	c 33	N73-26958 *	#	US-PATENT-3,759,588	c 15	N73-32359 *	#
US-PATENT-3,702,791	c 15	N73-13465 *	#	US-PATENT-3,737,217	c 05	N73-26072 *	#	US-PATENT-3,759,672	c 14	N73-32320 *	#
US-PATENT-3,702,841	c 18	N73-13562 *	#	US-PATENT-3,737,231	c 07	N73-26119 *	#	US-PATENT-3,759,746	c 09	N73-32108 *	#
US-PATENT-3,702,898	c 10	N73-13235 *	#	US-PATENT-3,737,237	c 26	N73-26751 *	#	US-PATENT-3,759,747	c 44	N73-19692 *	#
US-PATENT-3,702,933	c 23	N73-13662 *	#	US-PATENT-3,737,639	c 10	N73-26230 *	#	US-PATENT-3,759,787	c 22	N73-32529 *	#
US-PATENT-3,702,951	c 09	N73-13208 *	#	US-PATENT-3,737,676	c 10	N73-26229 *	#	US-PATENT-3,760,239	c 09	N73-32112 *	#
US-PATENT-3,702,972	c 16	N73-13489 *	#	US-PATENT-3,737,757	c 10	N73-26228 *	#	US-PATENT-3,760,248	c 10	N73-32145 *	#
US-PATENT-3,702,979	c 14	N73-13420 *	#	US-PATENT-3,737,762	c 14	N73-28486 *	#	US-PATENT-3,760,257	c 09	N73-32109 *	#
US-PATENT-3,704,284	c 74	N81-19898 *	#	US-PATENT-3,737,776	c 07	N73-26118 *	#	US-PATENT-3,760,268	c 14	N73-32318 *	#
US-PATENT-3,704,659	c 14	N73-14427 *	#	US-PATENT-3,737,781	c 10	N73-25241 *	#	US-PATENT-3,760,394	c 10	N73-32144 *	#
US-PATENT-3,705,255	c 15	N73-14469 *	#	US-PATENT-3,737,815	c 09	N73-26195 *	#	US-PATENT-3,762,884	c 17	N73-32414 *	#
US-PATENT-3,705,288	c 15	N73-14468 *	#	US-PATENT-3,737,824	c 26	N73-26752 *	#	US-PATENT-3,762,918	c 17	N73-32415 *	#
US-PATENT-3,705,316	c 09	N73-14214 *	#	US-PATENT-3,737,905	c 14	N73-26432 *	#	US-PATENT-3,763,204	c 06	N73-32030 *	#
US-PATENT-3,705,406	c 07	N73-14130 *	#	US-PATENT-3,737,912	c 07	N73-26117 *	#	US-PATENT-3,763,552	c 26	N73-32571 *	#
US-PATENT-3,706,221	c 14	N73-14429 *	#	US-PATENT-3,739,646	c 04	N76-26175 *	#	US-PATENT-3,763,691	c 14	N73-32327 *	#
US-PATENT-3,706,230	c 31	N73-14855 *	#	US-PATENT-3,740,671	c 10	N73-27171 *	#	US-PATENT-3,763,708	c 35	N74-18323 *	#
US-PATENT-3,706,281	c 31	N73-14853 *	#	US-PATENT-3,740,725	c 08	N73-26176 *	#	US-PATENT-3,763,740	c 11	N73-32152 *	#
US-PATENT-3,706,583	c 18	N73-14584 *	#	US-PATENT-3,741,001	c 14	N73-27376 *	#	US-PATENT-3,763,928	c 33	N74-32818 *	#
US-PATENT-3,706,970	c 21	N73-14692 *	#	US-PATENT-3,742,316	c 09	N73-27150 *	#	US-PATENT-3,764,097	c 02	N74-10034 *	#
US-PATENT-3,708,359	c 27	N73-16764 *	#	US-PATENT-3,744,128	c 09	N73-28083 *	#	US-PATENT-3,764,209	c 14	N73-33361 *	#
US-PATENT-3,708,419	c 33	N73-16918 *	#	US-PATENT-3,744,148	c 14	N73-28489 *	#	US-PATENT-3,764,220	c 16	N73-33397 *	#
US-PATENT-3,708,671	c 14	N73-16483 *	#	US-PATENT-3,744,247	c 28	N73-27699 *	#	US-PATENT-3,764,790	c 33	N74-10223 *	#
US-PATENT-3,708,674	c 14	N73-16484 *	#	US-PATENT-3,744,294	c 14	N73-27379 *	#	US-PATENT-3,764,850	c 33	N74-10195 *	#
US-PATENT-3,709,663	c 06	N73-16106 *	#	US-PATENT-3,744,305	c 12	N73-28144 *	#	US-PATENT-3,764,933	c 33	N74-10194 *	#
US-PATENT-3,710,122	c 16	N73-16536 *	#	US-PATENT-3,744,320	c 14	N73-28487 *	#	US-PATENT-3,765,229	c 35	N74-10415 *	#
US-PATENT-3,710,257	c 07	N73-16121 *	#	US-PATENT-3,744,480	c 05	N73-27941 *	#	US-PATENT-3,765,958	c 26	N74-10521 *	#
US-PATENT-3,710,261	c 10	N73-16205 *	#	US-PATENT-3,744,510	c 15	N73-27406 *	#	US-PATENT-3,766,315	c 32	N74-10132 *	#
US-PATENT-3,710,329	c 10	N73-16206 *	#	US-PATENT-3,744,738	c 14	N73-27378 *	#	US-PATENT-3,766,380	c 35	N74-11284 *	#
US-PATENT-3,711,042	c 02	N73-19004 *	#	US-PATENT-3,744,739	c 15	N77-10112 *	#	US-PATENT-3,767,212	c 37	N74-10474 *	#
US-PATENT-3,711,701	c 74	N77-21941 *	#	US-PATENT-3,744,794	c 14	N73-27377 *	#	US-PATENT-3,769,544	c 31	N78-17238 *	#
US-PATENT-3,712,120	c 14	N73-19421 *	#	US-PATENT-3,744,912	c 16	N73-30476 *	#	US-PATENT-3,769,623	c 32	N74-11000 *	#
US-PATENT-3,712,121	c 14	N73-19420 *	#	US-PATENT-3,744,913	c 14	N73-28490 *	#	US-PATENT-3,769,689	c 37	N74-11301 *	#
US-PATENT-3,712,132	c 14	N73-20478 *	#	US-PATENT-3,744,972	c 17	N73-27446 *	#	US-PATENT-3,769,834	c 52	N74-10975 *	#
US-PATENT-3,712,195	c 14	N73-19419 *	#	US-PATENT-3,745,082	c 18	N73-30532 *	#	US-PATENT-3,770,021	c 33	N74-11050 *	#
US-PATENT-3,712,591	c 15	N73-19458 *	#	US-PATENT-3,745,089	c 06	N73-27086 *	#	US-PATENT-3,770,903	c 35	N74-12833 *	#
US-PATENT-3,713,163	c 09	N73-19234 *	#	US-PATENT-3,745,090	c 04	N73-27052 *	#	US-PATENT-3,770,933	c 37	N74-11300 *	#
US-PATENT-3,713,290	c 28	N73-19793 *	#	US-PATENT-3,745,149	c 06	N73-27980 *	#	US-PATENT-3,771,037	c 08	N74-10942 *	#
US-PATENT-3,713,480	c 05	N73-20137 *	#	US-PATENT-3,745,255	c 07	N73-28012 *	#	US-PATENT-3,771,040	c 33	N74-11049 *	#
US-PATENT-3,713,987	c 15	N73-20514 *	#	US-PATENT-3,745,300	c 15	N73-28515 *	#	US-PATENT-3,771,074	c 36	N74-11313 *	#
US-PATENT-3,714,332	c 15	N73-19457 *	#	US-PATENT-3,745,352	c 08	N73-30135 *	#	US-PATENT-3,771,959	c 25	N74-12813 *	#
US-PATENT-3,714,405	c 10	N73-20253 *	#	US-PATENT-3,745,357	c 14	N73-28488 *	#	US-PATENT-3,772,174	c 27	N74-13270 *	#
US-PATENT-3,714,432	c 14	N73-20475 *	#	US-PATENT-3,745,410	c 09	N73-30181 *	#	US-PATENT-3,772,216	c 27	N74-12812 *	#
US-PATENT-3,714,526	c 09	N73-19235 *	#	US-PATENT-3,745,475	c 14	N73-30386 *	#	US-PATENT-3,772,220	c 27	N74-12814 *	#
US-PATENT-3,714,588	c 09	N73-20231 *	#	US-PATENT-3,745,739	c 15	N73-27405 *	#	US-PATENT-3,772,272	c 33	N74-12887 *	#
US-PATENT-3,714,624	c 14	N73-20474 *	#	US-PATENT-3,745,816	c 33	N73-27796 *	#	US-PATENT-3,772,418	c 31	N74-13177 *	#
US-PATENT-3,714,645	c 08	N73-20217 *	#	US-PATENT-3,746,998	c 07	N73-30113 *	#	US-PATENT-3,772,691	c 32	N74-12912 *	#
US-PATENT-3,714,821	c 14	N73-20476 *	#	US-PATENT-3,747,111	c 07	N73-28013 *	#	US-PATENT-3,773,038	c 52	N74-12778 *	#
US-PATENT-3,714,833	c 11	N73-20267 *	#	US-PATENT-3,748,722	c 15	N73-33383 *	#	US-PATENT-3,773,913	c 46	N74-13011 *	#
US-PATENT-3,715,092	c 03	N73-20039 *	#	US-PATENT-3,748,853	c 23	N73-30665 *	#	US-PATENT-3,775,101	c 37	N74-13179 *	#
US-PATENT-3,715,152	c 23	N73-20741 *	#	US-PATENT-3,748,905	c 14	N73-30395 *	#	US-PATENT-3,775,570	c 35	N78-29421 *	#
US-PATENT-3,715,590	c 14	N73-20477 *	#	US-PATENT-3,749,123	c 15	N73-30459 *	#	US-PATENT-3,776,028	c 35	N74-13129 *	#
US-PATENT-3,715,600	c 03	N73-20040 *	#	US-PATENT-3,749,156	c 31	N73-30829 *	#	US-PATENT-3,776,432	c 37	N74-13178 *	#
US-PATENT-3,715,660	c 07	N73-20175 *	#	US-PATENT-3,749,205	c 15	N73-30460 *	#	US-PATENT-3,776,455	c 04	N74-13420 *	#
US-PATENT-3,715,663	c 07	N73-20174 *	#	US-PATENT-3,749,332	c 31	N73-32750 *	#	US-PATENT-3,777,200	c 33	N74-12913 *	#
US-PATENT-3,715,693	c 09	N73-20232 *	#	US-PATENT-3,749,362	c 15	N73-30457 *	#	US-PATENT-3,777,490	c 20	N74-13502 *	#
US-PATENT-3,715,723	c 07	N73-20176 *	#	US-PATENT-3,749,831	c 07	N73-30115 *	#	US-PATENT-3,777,546	c 35	N74-13132 *	#
US-PATENT-3,715,915	c 32	N73-20740 *	#	US-PATENT-3,749,911	c 14	N73-30389 *	#	US-PATENT-3,777,552	c 38	N74-15130 *	#
US-PATENT-3,718,863	c 10	N73-20254 *	#	US-PATENT-3,750,016	c 14	N73-30388 *	#	US-PATENT-3,777,605	c 39	N74-13131 *	#
US-PATENT-3,719,891	c 07	N73-25160 *	#	US-PATENT-3,750,035	c 33	N77-13315 *	#	US-PATENT-3,777,811	c 34	N78-17336 *	#
US-PATENT-3,720,075	c 33	N73-25952 *	#	US-PATENT-3,750,067	c 09	N73-30185 *	#	US-PATENT-3,777,942	c 54	N74-12779 *	#
US-PATENT-3,720,208	c 05	N73-25125 *	#	US-PATENT-3,750,131	c 10	N73-30205 *	#	US-PATENT-3,778,685	c 33	N74-12951 *	#
US-PATENT-3,723,745	c 14	N73-25462 *	#	US-PATENT-3,750,168	c 21	N73-30641 *	#	US-PATENT-3,778,786	c 60	N74-12888 *	#
US-PATENT-3,728,861	c 28	N73-24783 *	#	US-PATENT-3,750,479	c 05	N73-30078 *	#	US-PATENT-3,778,791	c 36	N74-13205 *	#
US-PATENT-3,729,068	c 15	N73-25512 *	#	US-PATENT-3,751,123	c 15	N73-30458 *	#	US-PATENT-3,779,788	c 70	N74-13436 *	#
US-PATENT-3,729,129	c 08	N73-25206 *	#	US-PATENT-3,751,727	c 05	N73-32012 *	#	US-PATENT-3,780,151	c 31	N74-14133 *	#
US-PATENT-3,729,260	c 14	N73-25463 *	#	US-PATENT-3,751,733	c 05	N73-32013 *	#	US-PATENT-3,780,424	c 44	N74-14784 *	#
US-PATENT-3,729,343	c 14	N73-24472 *	#	US-PATENT-3,751,913	c 06	N73-30097 *	#	US-PATENT-3,780,563	c 35	N74-15092 *	#
US-PATENT-3,729,676	c 14	N73-24473 *	#	US-PATENT-3,751,980	c 14	N73-32326 *	#	US-PATENT-3,780,827	c 07	N74-15453 *	#
US-PATENT-3,729,736	c 07	N73-25161 *	#	US-PATENT-3,752,556	c 35	N74-17153 *	#	US-PATENT-3,780,966	c 19	N74-15089 *	#
US-PATENT-3,729,743	c 07	N73-24176 *	#	US-PATENT-3,752,559	c 14	N73-30393 *	#	US-PATENT-3,781,111	c 36	N74-15145 *	#
US-PATENT-3,729,935	c 28	N73-24784 *	#	US-PATENT-3,752,564	c 23	N73-30666 *	#	US-PATENT-3,781,549	c 35	N74-15090 *	#
US-PATENT-3,730,287	c 11	N73-26238 *	#	US-PATENT-3,752,665	c 18	N73-32437 *	#	US-PATENT-3,781,562	c 35	N74-15091 *	#
US-PATENT-3,730,891	c 18	N73-26572 *	#	US-PATENT-3,752,847	c 06	N73-30098 *	#	US-PATENT-3,781,902	c 35	N74-15831 *	#
US-PATENT-3,731,528	c 12	N73-25262 *	#	US-PATENT-3,752,986	c 14	N73-30392 *	#	US-PATENT-3,781,933	c 54	N74-14845 *	#
US-PATENT-3,731,531	c 14	N73-25460 *	#	US-PATENT-3,752,993	c 21	N73-30640 *	#	US-PATENT-3,781,958	c 37	N74-15128 *	#
US-PATENT-3,732,040	c 15	N73-24513 *	#	US-PATENT-3,752,996	c 91	N74-13130 *	#	US-PATENT-3,782,177	c 38	N74-15395 *	#
US-PATENT-3,732,158	c 17	N73-24569 *	#	US-PATENT-3,753,148	c 09	N73-32111 *	#	US-PATENT-3,782,181	c 34	N74-15652 *	#
US-PATENT-3,732,397	c 33	N74-14935 *	#	US-PATENT-3,754,236	c 08	N73-32081 *	#	US-PATENT-3,782,205	c 35	N74-15094 *	#
US-PATENT-3,732,405	c 10	N73-25240 *	#	US-PATENT-3,754,263	c 09	N73-32110 *	#	US-PATENT-3,782,334	c 51	N74-15778 *	#
US-PATENT-3,732,409	c 08	N73-26175 *	#	US-PATENT-3,754,976	c 15	N73-32360 *	#	US-PATENT-3,782,698	c 35	N74-15093 *	#
US-PATENT-3,732,567	c 14	N73-25461 *	#	US-PATENT-3,755,265	c 06	N73-33076 *	#	US-PATENT-3,782,699	c 35	N74-15126 *	#
US-PATENT-3,733,350	c 06	N73-26100 *	#	US-PATENT-3,755,283	c 06	N73-32029 *	#	US-PATENT-3,782,737	c 37	N74-15125 *	#
US-PATENT-3,733,424	c 32	N73-26910 *	#	US-PATENT-3,755,686	c 03	N73-31988 *	#	US-PATENT-3,782,825	c 35	N74-15146 *	#
US-PATENT-3,733,463	c 14	N73-26430 *	#	US-PATENT-3,756,920	c 05	N73-32011 *	#	US-PATENT-3			

US-PATENT-3,788,163	c 37	N74-18127 * #	US-PATENT-3,816,657	c 32	N74-26654 * #	US-PATENT-3,857,045	c 33	N75-14957 * #
US-PATENT-3,789,654	c 25	N74-18551 * #	US-PATENT-3,816,785	c 73	N74-26767 * #	US-PATENT-3,859,119	c 36	N75-15029 * #
US-PATENT-3,789,920	c 34	N74-18552 * #	US-PATENT-3,817,082	c 34	N74-27730 * #	US-PATENT-3,859,714	c 37	N75-15992 * #
US-PATENT-3,789,947	c 37	N74-18125 * #	US-PATENT-3,817,084	c 31	N74-27900 * #	US-PATENT-3,859,714	c 24	N79-25143 * #
US-PATENT-3,790,037	c 54	N74-17853 * #	US-PATENT-3,817,622	c 75	N74-30156 * #	US-PATENT-3,859,736	c 09	N75-15662 * #
US-PATENT-3,790,347	c 37	N74-18123 * #	US-PATENT-3,817,627	c 35	N74-27860 * #	US-PATENT-3,859,840	c 35	N75-15932 * #
US-PATENT-3,790,409	c 44	N74-19693 * #	US-PATENT-3,818,325	c 44	N74-27519 * #	US-PATENT-3,859,845	c 35	N75-15931 * #
US-PATENT-3,790,432	c 37	N74-18126 * #	US-PATENT-3,818,346	c 33	N74-27705 * #	US-PATENT-3,860,342	c 35	N75-16783 * #
US-PATENT-3,790,650	c 31	N74-18124 * #	US-PATENT-3,818,767	c 35	N74-28097 * #	US-PATENT-3,860,393	c 25	N76-18245 * #
US-PATENT-3,790,795	c 35	N74-18088 * #	US-PATENT-3,818,775	c 37	N74-27901 * #	US-PATENT-3,860,858	c 33	N75-15874 * #
US-PATENT-3,790,906	c 33	N74-17927 * #	US-PATENT-3,818,814	c 31	N74-27902 * #	US-PATENT-3,860,921	c 32	N75-15854 * #
US-PATENT-3,791,207	c 09	N74-17955 * #	US-PATENT-3,819,299	c 37	N74-27904 * #	US-PATENT-3,860,946	c 33	N79-11314 * #
US-PATENT-3,792,399	c 33	N74-17928 * #	US-PATENT-3,819,419	c 34	N74-27861 * #	US-PATENT-3,863,881	c 37	N75-18573 * #
US-PATENT-3,793,109	c 31	N74-18089 * #	US-PATENT-3,819,440	c 32	N74-27612 * #	US-PATENT-3,864,060	c 35	N75-19611 * #
US-PATENT-3,795,134	c 09	N74-19528 * #	US-PATENT-3,819,550	c 27	N74-27037 * #	US-PATENT-3,864,239	c 37	N75-19684 * #
US-PATENT-3,795,448	c 72	N74-19310 * #	US-PATENT-3,820,095	c 33	N74-27862 * #	US-PATENT-3,864,542	c 37	N75-19683 * #
US-PATENT-3,795,840	c 33	N74-17929 * #	US-PATENT-3,820,286	c 37	N74-27905 * #	US-PATENT-3,864,797	c 20	N75-18310 * #
US-PATENT-3,795,858	c 35	N74-18090 * #	US-PATENT-3,820,388	c 35	N74-27865 * #	US-PATENT-3,864,953	c 35	N75-19615 * #
US-PATENT-3,795,862	c 33	N74-17930 * #	US-PATENT-3,820,529	c 52	N74-27864 * #	US-PATENT-3,864,960	c 35	N75-19612 * #
US-PATENT-3,795,900	c 35	N74-17885 * #	US-PATENT-3,820,630	c 07	N74-27490 * #	US-PATENT-3,865,442	c 37	N75-18574 * #
US-PATENT-3,795,910	c 44	N74-19870 * #	US-PATENT-3,820,741	c 37	N74-27903 * #	US-PATENT-3,865,975	c 36	N75-19652 * #
US-PATENT-3,796,473	c 37	N74-20063 * #	US-PATENT-3,820,918	c 07	N74-28226 * #	US-PATENT-3,866,022	c 33	N75-19519 * #
US-PATENT-3,796,592	c 24	N74-19769 * #	US-PATENT-3,821,102	c 34	N74-27744 * #	US-PATENT-3,866,114	c 33	N75-18477 * #
US-PATENT-3,797,098	c 37	N74-21057 * #	US-PATENT-3,821,462	c 33	N74-27683 * #	US-PATENT-3,866,128	c 33	N75-19515 * #
US-PATENT-3,797,919	c 70	N74-21300 * #	US-PATENT-3,821,546	c 33	N74-27682 * #	US-PATENT-3,866,210	c 33	N75-19517 * #
US-PATENT-3,798,741	c 31	N74-21059 * #	US-PATENT-3,821,556	c 74	N74-27866 * #	US-PATENT-3,866,233	c 33	N75-19516 * #
US-PATENT-3,798,748	c 37	N74-21055 * #	US-PATENT-3,824,707	c 09	N74-30597 * #	US-PATENT-3,866,863	c 18	N75-19329 * #
US-PATENT-3,798,778	c 19	N74-21015 * #	US-PATENT-3,825,760	c 19	N74-29410 * #	US-PATENT-3,867,677	c 33	N75-19524 * #
US-PATENT-3,798,896	c 37	N74-21080 * #	US-PATENT-3,826,448	c 08	N74-30421 * #	US-PATENT-3,868,591	c 36	N75-19655 * #
US-PATENT-3,799,149	c 52	N74-20728 * #	US-PATENT-3,826,726	c 25	N74-30502 * #	US-PATENT-3,868,830	c 77	N75-20139 * #
US-PATENT-3,799,475	c 02	N74-20646 * #	US-PATENT-3,826,729	c 20	N74-31269 * #	US-PATENT-3,868,856	c 35	N75-19614 * #
US-PATENT-3,799,793	c 74	N74-20008 * #	US-PATENT-3,826,964	c 33	N74-29556 * #	US-PATENT-3,869,151	c 37	N75-19686 * #
US-PATENT-3,799,813	c 76	N74-20329 * #	US-PATENT-3,827,288	c 71	N74-31148 * #	US-PATENT-3,869,160	c 37	N75-19685 * #
US-PATENT-3,800,074	c 36	N74-20009 * #	US-PATENT-3,827,807	c 89	N74-30886 * #	US-PATENT-3,869,210	c 36	N75-19653 * #
US-PATENT-3,800,082	c 71	N74-21014 * #	US-PATENT-3,828,137	c 32	N74-30524 * #	US-PATENT-3,869,212	c 35	N75-19613 * #
US-PATENT-3,800,224	c 32	N74-19790 * #	US-PATENT-3,828,138	c 32	N74-30523 * #	US-PATENT-3,869,597	c 77	N75-20140 * #
US-PATENT-3,800,227	c 32	N74-20809 * #	US-PATENT-3,828,524	c 34	N74-30608 * #	US-PATENT-3,869,615	c 35	N75-19616 * #
US-PATENT-3,800,237	c 32	N74-19788 * #	US-PATENT-3,829,237	c 07	N74-31270 * #	US-PATENT-3,869,624	c 33	N75-18479 * #
US-PATENT-3,800,253	c 37	N74-21056 * #	US-PATENT-3,829,839	c 60	N76-18800 * #	US-PATENT-3,869,659	c 33	N75-19522 * #
US-PATENT-3,801,617	c 37	N74-21058 * #	US-PATENT-3,830,060	c 44	N74-33379 * #	US-PATENT-3,869,667	c 33	N75-19521 * #
US-PATENT-3,802,249	c 35	N74-21019 * #	US-PATENT-3,830,094	c 35	N74-32879 * #	US-PATENT-3,869,676	c 33	N75-19520 * #
US-PATENT-3,802,253	c 52	N74-20726 * #	US-PATENT-3,830,335	c 07	N74-32418 * #	US-PATENT-3,869,680	c 36	N75-19654 * #
US-PATENT-3,802,262	c 35	N74-21018 * #	US-PATENT-3,830,431	c 07	N74-33218 * #	US-PATENT-3,869,779	c 26	N75-19408 * #
US-PATENT-3,802,660	c 37	N74-21065 * #	US-PATENT-3,830,552	c 37	N74-32921 * #	US-PATENT-3,872,395	c 33	N75-19518 * #
US-PATENT-3,802,753	c 37	N74-21064 * #	US-PATENT-3,830,609	c 31	N74-32920 * #	US-PATENT-3,874,240	c 35	N75-25122 * #
US-PATENT-3,802,779	c 74	N74-21304 * #	US-PATENT-3,830,673	c 28	N74-33209 * #	US-PATENT-3,874,635	c 37	N75-25185 * #
US-PATENT-3,803,090	c 27	N74-21156 * #	US-PATENT-3,831,098	c 33	N74-32711 * #	US-PATENT-3,874,677	c 37	N75-21631 * #
US-PATENT-3,803,393	c 60	N74-20836 * #	US-PATENT-3,831,117	c 33	N74-32712 * #	US-PATENT-3,875,332	c 32	N75-21486 * #
US-PATENT-3,803,445	c 32	N74-20813 * #	US-PATENT-3,831,142	c 32	N74-32598 * #	US-PATENT-3,875,394	c 33	N75-26243 * #
US-PATENT-3,803,617	c 32	N74-20863 * #	US-PATENT-3,832,290	c 20	N74-32919 * #	US-PATENT-3,875,404	c 35	N75-23910 * #
US-PATENT-3,804,472	c 37	N74-21061 * #	US-PATENT-3,832,735	c 54	N74-32546 * #	US-PATENT-3,875,435	c 20	N75-24637 * #
US-PATENT-3,804,506	c 33	N74-20861 * #	US-PATENT-3,832,764	c 37	N74-32918 * #	US-PATENT-3,875,500	c 35	N75-21582 * #
US-PATENT-3,804,525	c 36	N74-21091 * #	US-PATENT-3,832,781	c 35	N74-32877 * #	US-PATENT-3,875,584	c 32	N75-21485 * #
US-PATENT-3,804,703	c 37	N74-21063 * #	US-PATENT-3,832,903	c 35	N74-32878 * #	US-PATENT-3,877,833	c 37	N75-25186 * #
US-PATENT-3,805,266	c 32	N74-20864 * #	US-PATENT-3,833,322	c 31	N74-32917 * #	US-PATENT-3,878,464	c 32	N75-24981 * #
US-PATENT-3,805,303	c 54	N74-20725 * #	US-PATENT-3,833,336	c 25	N74-33378 * #	US-PATENT-3,881,132	c 33	N77-21315 * #
US-PATENT-3,805,622	c 35	N74-21062 * #	US-PATENT-3,833,857	c 33	N74-32660 * #	US-PATENT-3,882,417	c 36	N78-17366 * #
US-PATENT-3,806,756	c 33	N74-21850 * #	US-PATENT-3,835,318	c 35	N74-34857 * #	US-PATENT-3,882,530	c 76	N75-25730 * #
US-PATENT-3,806,802	c 35	N74-21017 * #	US-PATENT-3,837,285	c 85	N74-34672 * #	US-PATENT-3,882,834	c 51	N75-25503 * #
US-PATENT-3,806,815	c 32	N74-20811 * #	US-PATENT-3,837,908	c 76	N79-16678 * #	US-PATENT-3,882,719	c 14	N75-24794 * #
US-PATENT-3,806,816	c 32	N74-20810 * #	US-PATENT-3,840,829	c 33	N74-34638 * #	US-PATENT-3,882,732	c 12	N75-24774 * #
US-PATENT-3,806,831	c 33	N74-20862 * #	US-PATENT-3,841,973	c 35	N75-12272 * #	US-PATENT-3,882,846	c 05	N75-24716 * #
US-PATENT-3,806,834	c 36	N76-18427 * #	US-PATENT-3,842,485	c 37	N75-12326 * #	US-PATENT-3,883,095	c 07	N75-24736 * #
US-PATENT-3,806,835	c 33	N74-20859 * #	US-PATENT-3,842,509	c 35	N75-12273 * #	US-PATENT-3,883,215	c 35	N75-25124 * #
US-PATENT-3,806,932	c 33	N74-20860 * #	US-PATENT-3,842,656	c 76	N75-12810 * #	US-PATENT-3,883,436	c 74	N75-25706 * #
US-PATENT-3,807,384	c 34	N74-23039 * #	US-PATENT-3,845,466	c 74	N81-19896 * #	US-PATENT-3,883,689	c 35	N75-25123 * #
US-PATENT-3,807,656	c 18	N74-22136 * #	US-PATENT-3,846,243	c 25	N75-12086 * #	US-PATENT-3,883,785	c 09	N75-24758 * #
US-PATENT-3,808,464	c 33	N74-22814 * #	US-PATENT-3,847,115	c 31	N75-12161 * #	US-PATENT-3,883,812	c 33	N75-25041 * #
US-PATENT-3,808,511	c 33	N74-22864 * #	US-PATENT-3,847,141	c 35	N75-12271 * #	US-PATENT-3,883,817	c 33	N75-25040 * #
US-PATENT-3,808,517	c 33	N74-22885 * #	US-PATENT-3,847,208	c 34	N75-12222 * #	US-PATENT-3,883,872	c 32	N75-24982 * #
US-PATENT-3,809,481	c 35	N74-23040 * #	US-PATENT-3,847,652	c 25	N75-12087 * #	US-PATENT-3,884,432	c 05	N75-25914 * #
US-PATENT-3,809,601	c 37	N74-23064 * #	US-PATENT-3,847,689	c 74	N75-12732 * #	US-PATENT-3,884,765	c 35	N75-27330 * #
US-PATENT-3,809,800	c 33	N74-22865 * #	US-PATENT-3,848,190	c 35	N75-12270 * #	US-PATENT-3,887,233	c 05	N75-25915 * #
US-PATENT-3,809,871	c 52	N74-22771 * #	US-PATENT-3,849,554	c 52	N75-15270 * #	US-PATENT-3,887,345	c 35	N75-26334 * #
US-PATENT-3,810,829	c 31	N74-23065 * #	US-PATENT-3,849,668	c 54	N75-12616 * #	US-PATENT-3,887,365	c 37	N75-26371 * #
US-PATENT-3,811,044	c 34	N74-23066 * #	US-PATENT-3,849,720	c 33	N77-26387 * #	US-PATENT-3,888,362	c 54	N75-27758 * #
US-PATENT-3,811,094	c 33	N74-21851 * #	US-PATENT-3,849,865	c 37	N75-13261 * #	US-PATENT-3,888,410	c 34	N75-26282 * #
US-PATENT-3,811,429	c 52	N74-27566 * #	US-PATENT-3,849,875	c 35	N75-13213 * #	US-PATENT-3,888,561	c 35	N75-27328 * #
US-PATENT-3,811,901	c 27	N82-29454 * #	US-PATENT-3,849,877	c 24	N75-13032 * #	US-PATENT-3,888,705	c 25	N75-26043 * #
US-PATENT-3,812,358	c 35	N74-26949 * #	US-PATENT-3,850,169	c 54	N75-13531 * #	US-PATENT-3,889,064	c 32	N75-26195 * #
US-PATENT-3,812,783	c 28	N74-27425 * #	US-PATENT-3,850,388	c 05	N75-12930 * #	US-PATENT-3,889,122	c 37	N75-26372 * #
US-PATENT-3,812,924	c 35	N74-26945 * #	US-PATENT-3,850,567	c 31	N75-13111 * #	US-PATENT-3,889,155	c 33	N75-26244 * #
US-PATENT-3,812,936	c 37	N74-26976 * #	US-PATENT-3,850,754	c 51	N75-13502 * #	US-PATENT-3,889,182	c 33	N75-26245 * #
US-PATENT-3,813,183	c 37	N74-25968 * #	US-PATENT-3,851,162	c 60	N75-13539 * #	US-PATENT-3,889,185	c 33	N75-26246 * #
US-PATENT-3,813,875	c 15	N74-27360 * #	US-PATENT-3,851,238	c 33	N75-13139 * #	US-PATENT-3,889,264	c 32	N75-26194 * #
US-PATENT-3,813,937	c 34	N74-27859 * #	US-PATENT-3,851,250	c 15	N75-13007 * #	US-PATENT-3,891,311	c 54	N75-27759 * #
US-PATENT-3,814,083	c 52	N74-26626 * #	US-PATENT-3,853,003	c 09	N75-12969 * #	US-PATENT-3,891,452	c 27	N75-27160 * #
US-PATENT-3,814,350	c 18	N74-27397 * #	US-PATENT-3,853,075	c 09	N75-12968 * #	US-PATENT-3,891,533	c 33	N75-27252 * #
US-PATENT-3,814,645	c 24	N74-30001 * #	US-PATENT-3,854,097	c 75	N75-13625 * #	US-PATENT-3,891,848	c 45	N75-27585 * #
US-PATENT-3,814,653	c 24	N74-27035 * #	US-PATENT-3,854,113	c 37	N75-13265 * #	US-PATENT-3,891,851	c 35	N75-27331 * #
US-PATENT-3,814,678	c 25	N74-26948 * #	US-PATENT-3,855,873	c 37	N75-13266 * #	US-PATENT-3,893,449	c 54	N75-27760 * #
US-PATENT-3,814,939	c 25	N74-26947 * #	US-PATENT-3,856,042	c 37	N75-15050 * #	US-PATENT-3,893,458	c 54	N75-27761 * #
US-PATENT-3,815,048	c 33	N74-26732 * #	US-PATENT-3,856,402	c 36	N75-15028 * #	US-PATENT-3,893,573	c 18	N75-27041 * #

US-PATENT-3,895,521	c 35	N75-29381 *	#	US-PATENT-3,931,516	c 35	N76-16393 *	#	US-PATENT-3,972,008	c 36	N76-29575 *	#
US-PATENT-3,895,912	c 35	N75-29380 *	#	US-PATENT-3,931,532	c 44	N76-16612 *	#	US-PATENT-3,972,038	c 17	N76-29347 *	#
US-PATENT-3,896,758	c 35	N75-33367 *	#	US-PATENT-3,932,262	c 25	N79-10163 *	#	US-PATENT-3,972,651	c 44	N76-29701 *	#
US-PATENT-3,896,955	c 37	N77-22480 *	#	US-PATENT-3,936,927	c 37	N76-19437 *	#	US-PATENT-3,972,727	c 44	N76-29699 *	#
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US-PATENT-4,130,795	c 35	N79-14349 *	#	US-PATENT-4,161,731	c 31	N79-28370 *	#	US-PATENT-4,199,764	c 32	N80-23524 *	#
US-PATENT-4,131,336	c 44	N79-14529 *	#	US-PATENT-4,161,747	c 37	N79-28549 *	#	US-PATENT-4,199,937	c 34	N80-24573 *	#
US-PATENT-4,131,459	c 27	N79-14213 *	#	US-PATENT-4,162,169	c 24	N79-31347 *	#	US-PATENT-4,200,721	c 44	N81-24519 *	#
US-PATENT-4,131,486	c 44	N79-14528 *	#	US-PATENT-4,162,701	c 34	N79-31523 *	#	US-PATENT-4,200,721	c 27	N80-24438 *	#
US-PATENT-4,132,068	c 07	N79-14097 *	#	US-PATENT-4,162,928	c 44	N79-31753 *	#	US-PATENT-4,201,468	c 32	N80-24510 *	#
US-PATENT-4,132,069	c 07	N79-14096 *	#	US-PATENT-4,163,678	c 44	N79-31752 *	#	US-PATENT-4,203,723	c 27	N80-26446 *	#
US-PATENT-4,132,130	c 44	N79-14527 *	#	US-PATENT-4,164,079	c 09	N79-31228 *	#	US-PATENT-4,204,037	c 51	N80-27067 *	#
US-PATENT-4,132,375	c 08	N79-14108 *	#	US-PATENT-4,164,718	c 32	N80-14281 *	#	US-PATENT-4,204,154	c 33	N80-26599 *	#
US-PATENT-4,132,584	c 52	N79-14749 *	#	US-PATENT-4,165,460	c 43	N79-31706 *	#	US-PATENT-4,204,402	c 07	N80-26298 *	#
US-PATENT-4,132,599	c 52	N79-14750 *	#	US-PATENT-4,166,170	c 27	N79-33316 *	#	US-PATENT-4,204,544	c 52	N80-27072 *	#
US-PATENT-4,132,829	c 27	N79-14214 *	#	US-PATENT-4,166,170	c 27	N81-14078 *	#	US-PATENT-4,204,899	c 24	N80-26388 *	#
US-PATENT-4,132,940	c 35	N79-14348 *	#	US-PATENT-4,166,170	c 27	N81-14078 *	#	US-PATENT-4,205,229	c 35	N80-26635 *	#
US-PATENT-4,132,989	c 32	N79-14268 *	#	US-PATENT-4,166,959	c 74	N79-34011 *	#	US-PATENT-4,206,383	c 72	N80-27163 *	#
US-PATENT-4,133,697	c 44	N79-17314 *	#	US-PATENT-4,167,111	c 46	N80-10709 *	#	US-PATENT-4,206,383	c 31	N81-15154 *	#
US-PATENT-4,133,697	c 44	N80-14474 *	#	US-PATENT-4,168,287	c 27	N80-10358 *	#	US-PATENT-4,206,713	c 31	N81-15154 *	#
US-PATENT-4,133,941	c 44	N79-17313 *	#	US-PATENT-4,168,483	c 39	N80-10507 *	#	US-PATENT-4,206,970	c 74	N80-27185 *	#
US-PATENT-4,133,941	c 25	N82-21268 *	#	US-PATENT-4,168,706	c 54	N80-10799 *	#	US-PATENT-4,207,024	c 37	N80-26658 *	#
US-PATENT-4,134,447	c 31	N79-17029 *	#	US-PATENT-4,168,718	c 20	N80-10278 *	#	US-PATENT-4,207,024	c 37	N82-19540 *	#
US-PATENT-4,134,683	c 43	N79-17288 *	#	US-PATENT-4,168,939	c 05	N80-14107 *	#	US-PATENT-4,209,393	c 45	N82-11634 *	#
US-PATENT-4,134,744	c 35	N79-17192 *	#	US-PATENT-4,169,129	c 37	N80-10494 *	#	US-PATENT-4,209,561	c 24	N81-13999 *	#
US-PATENT-4,134,786	c 85	N79-17747 *	#	US-PATENT-4,170,776	c 46	N80-14603 *	#	US-PATENT-4,210,278	c 31	N80-32583 *	#
US-PATENT-4,135,019	c 24	N79-16915 *	#	US-PATENT-4,170,987	c 52	N81-27783 *	#	US-PATENT-4,210,401	c 35	N80-28687 *	#
US-PATENT-4,135,127	c 33	N79-17133 *	#	US-PATENT-4,171,615	c 20	N80-14188 *	#	US-PATENT-4,210,474	c 28	N80-28536 *	#
US-PATENT-4,135,290	c 44	N79-18444 *	#	US-PATENT-4,171,645	c 35	N80-14371 *	#	US-PATENT-4,210,622	c 44	N80-24741 *	#
US-PATENT-4,135,367	c 44	N79-18443 *	#	US-PATENT-4,172,228	c 33	N80-14332 *	#	US-PATENT-4,211,354	c 24	N81-17170 *	#
US-PATENT-4,135,617	c 35	N79-18296 *	#	US-PATENT-4,172,786	c 45	N80-14579 *	#	US-PATENT-4,211,354	c 24	N81-26179 *	#
US-PATENT-4,135,851	c 37	N79-18318 *	#	US-PATENT-4,172,883	c 26	N80-14229 *	#	US-PATENT-4,212,199	c 02	N80-28300 *	#
US-PATENT-4,135,851	c 37	N80-26658 *	#	US-PATENT-4,173,001	c 36	N80-14384 *	#	US-PATENT-4,212,297	c 51	N81-14605 *	#
US-PATENT-4,135,851	c 37	N82-19540 *	#	US-PATENT-4,173,324	c 37	N80-14398 *	#	US-PATENT-4,212,477	c 37	N80-28711 *	#
US-PATENT-4,136,211	c 24	N79-17916 *	#	US-PATENT-4,173,397	c 44	N80-14473 *	#	US-PATENT-4,212,477	c 37	N81-26447 *	#
US-PATENT-4,137,010	c 05	N79-17847 *	#	US-PATENT-4,173,820	c 44	N80-14474 *	#	US-PATENT-4,212,690	c 26	N80-28492 *	#
US-PATENT-4,137,365	c 27	N79-18052 *	#	US-PATENT-4,175,249	c 44	N80-14472 *	#	US-PATENT-4,213,051	c 35	N80-28686 *	#
US-PATENT-4,139,291	c 74	N79-20856 *	#	US-PATENT-4,176,007	c 51	N80-16714 *	#	US-PATENT-4,213,061	c 60	N81-15706 *	#
US-PATENT-4,139,806	c 71	N79-20827 *	#	US-PATENT-4,176,360	c 18	N80-14183 *	#	US-PATENT-4,213,131	c 32	N80-28578 *	#
US-PATENT-4,1											

US-PATENT-4,215,592	c 37	N80-32716 *	#	US-PATENT-4,262,198	c 74	N83-19597 *	#	US-PATENT-4,302,223	c 25	N82-21269 *	#
US-PATENT-4,216,166	c 76	N80-32244 *	#	US-PATENT-4,262,206	c 74	N81-24900 *	#	US-PATENT-4,302,734	c 33	N82-16340 *	#
US-PATENT-4,216,542	c 33	N81-15192 *	#	US-PATENT-4,262,258	c 33	N81-27396 *	#	US-PATENT-4,303,961	c 28	N82-18401 *	#
US-PATENT-4,217,165	c 76	N80-32245 *	#	US-PATENT-4,262,259	c 33	N81-24338 *	#	US-PATENT-4,304,219	c 44	N82-18686 *	#
US-PATENT-4,217,633	c 44	N81-12542 *	#	US-PATENT-4,263,112	c 28	N81-24280 *	#	US-PATENT-4,304,320	c 37	N82-18601 *	#
US-PATENT-4,218,280	c 27	N80-32516 *	#	US-PATENT-4,264,310	c 54	N81-27806 *	#	US-PATENT-4,305,205	c 37	N82-26672 *	#
US-PATENT-4,218,633	c 72	N80-33186 *	#	US-PATENT-4,264,728	c 51	N81-28698 *	#	US-PATENT-4,307,024	c 25	N82-24312 *	#
US-PATENT-4,218,650	c 33	N80-32650 *	#	US-PATENT-4,264,802	c 35	N81-26431 *	#	US-PATENT-4,307,510	c 60	N82-24839 *	#
US-PATENT-4,218,682	c 32	N80-32604 *	#	US-PATENT-4,264,908	c 33	N81-26358 *	#	US-PATENT-4,307,575	c 44	N82-26776 *	#
US-PATENT-4,218,685	c 32	N81-14187 *	#	US-PATENT-4,264,940	c 33	N81-27397 *	#	US-PATENT-4,307,856	c 05	N82-26277 *	#
US-PATENT-4,218,892	c 35	N81-14287 *	#	US-PATENT-4,264,984	c 60	N81-27814 *	#	US-PATENT-4,308,309	c 27	N82-24339 *	#
US-PATENT-4,218,921	c 71	N81-15767 *	#	US-PATENT-4,265,416	c 14	N81-26161 *	#	US-PATENT-4,308,868	c 52	N82-29863 *	#
US-PATENT-4,218,941	c 37	N81-14319 *	#	US-PATENT-4,266,177	c 33	N81-27395 *	#	US-PATENT-4,309,039	c 37	N82-24490 *	#
US-PATENT-4,219,027	c 52	N81-14612 *	#	US-PATENT-4,266,743	c 08	N81-26152 *	#	US-PATENT-4,309,146	c 44	N82-24639 *	#
US-PATENT-4,219,084	c 31	N81-14137 *	#	US-PATENT-4,266,788	c 37	N81-26447 *	#	US-PATENT-4,309,372	c 25	N82-21268 *	#
US-PATENT-4,219,107	c 37	N81-15364 *	#	US-PATENT-4,267,594	c 33	N81-26359 *	#	US-PATENT-4,310,049	c 25	N82-23282 *	#
US-PATENT-4,219,171	c 37	N81-14320 *	#	US-PATENT-4,267,953	c 24	N81-26179 *	#	US-PATENT-4,310,132	c 24	N82-26384 *	#
US-PATENT-4,219,203	c 37	N81-15363 *	#	US-PATENT-4,267,992	c 37	N81-24443 *	#	US-PATENT-4,310,574	c 27	N82-28441 *	#
US-PATENT-4,219,926	c 44	N81-14389 *	#	US-PATENT-4,269,640	c 37	N82-24491 *	#	US-PATENT-4,310,906	c 33	N82-26572 *	#
US-PATENT-4,220,171	c 07	N81-14999 *	#	US-PATENT-4,269,787	c 27	N81-24256 *	#	US-PATENT-4,311,055	c 54	N82-26987 *	#
US-PATENT-4,221,005	c 32	N81-15179 *	#	US-PATENT-4,270,539	c 52	N81-28740 *	#	US-PATENT-4,311,057	c 37	N82-24493 *	#
US-PATENT-4,222,098	c 33	N81-14220 *	#	US-PATENT-4,270,984	c 44	N81-29524 *	#	US-PATENT-4,311,378	c 35	N82-26628 *	#
US-PATENT-4,225,102	c 02	N81-14968 *	#	US-PATENT-4,271,761	c 15	N82-24272 *	#	US-PATENT-4,311,615	c 25	N82-26396 *	#
US-PATENT-4,225,372	c 27	N81-14077 *	#	US-PATENT-4,272,046	c 08	N82-24205 *	#	US-PATENT-4,311,870	c 44	N82-26777 *	#
US-PATENT-4,226,475	c 43	N81-26509 *	#	US-PATENT-4,272,302	c 33	N81-26360 *	#	US-PATENT-4,312,292	c 37	N82-24492 *	#
US-PATENT-4,227,096	c 33	N81-17348 *	#	US-PATENT-4,272,470	c 23	N81-29160 *	#	US-PATENT-4,313,077	c 33	N82-26569 *	#
US-PATENT-4,228,422	c 33	N81-14221 *	#	US-PATENT-4,272,720	c 47	N82-24779 *	#	US-PATENT-4,313,103	c 33	N82-26570 *	#
US-PATENT-4,228,656	c 37	N81-14318 *	#	US-PATENT-4,273,304	c 05	N81-26114 *	#	US-PATENT-4,313,291	c 09	N82-29330 *	#
US-PATENT-4,229,182	c 28	N81-15119 *	#	US-PATENT-4,273,505	c 54	N81-26718 *	#	US-PATENT-4,313,726	c 09	N82-24212 *	#
US-PATENT-4,229,196	c 28	N81-14103 *	#	US-PATENT-4,273,918	c 27	N82-24338 *	#	US-PATENT-4,313,745	c 27	N82-28442 *	#
US-PATENT-4,229,473	c 24	N81-14000 *	#	US-PATENT-4,274,038	c 37	N81-33483 *	#	US-PATENT-4,313,777	c 33	N82-26571 *	#
US-PATENT-4,229,473	c 24	N81-33235 *	#	US-PATENT-4,274,285	c 35	N81-29407 *	#	US-PATENT-4,314,984	c 25	N82-28368 *	#
US-PATENT-4,230,717	c 52	N81-14613 *	#	US-PATENT-4,274,901	c 24	N81-33235 *	#	US-PATENT-4,315,194	c 33	N82-26568 *	#
US-PATENT-4,233,258	c 27	N81-14078 *	#	US-PATENT-4,275,317	c 33	N82-24418 *	#	US-PATENT-4,315,197	c 33	N82-24421 *	#
US-PATENT-4,233,606	c 32	N81-14185 *	#	US-PATENT-4,275,453	c 33	N82-24417 *	#	US-PATENT-4,315,266	c 32	N82-27558 *	#
US-PATENT-4,234,258	c 25	N81-14015 *	#	US-PATENT-4,276,344	c 27	N81-27272 *	#	US-PATENT-4,316,035	c 23	N82-28353 *	#
US-PATENT-4,234,715	c 25	N81-14016 *	#	US-PATENT-4,276,344	c 27	N85-21347 *	#	US-PATENT-4,317,102	c 35	N82-24470 *	#
US-PATENT-4,234,971	c 32	N81-14186 *	#	US-PATENT-4,276,403	c 27	N81-27271 *	#	US-PATENT-4,319,133	c 33	N82-28545 *	#
US-PATENT-4,235,060	c 37	N81-14317 *	#	US-PATENT-4,276,553	c 32	N81-27341 *	#	US-PATENT-4,320,290	c 74	N82-24072 *	#
US-PATENT-4,236,383	c 44	N81-17518 *	#	US-PATENT-4,276,588	c 33	N81-33404 *	#	US-PATENT-4,320,397	c 32	N82-23376 *	#
US-PATENT-4,236,684	c 08	N81-19130 *	#	US-PATENT-4,277,402	c 23	N82-16174 *	#	US-PATENT-4,320,911	c 37	N82-24494 *	#
US-PATENT-4,237,662	c 31	N81-27323 *	#	US-PATENT-4,277,721	c 33	N82-24415 *	#	US-PATENT-4,321,099	c 44	N82-28780 *	#
US-PATENT-4,238,911	c 31	N81-27324 *	#	US-PATENT-4,278,220	c 07	N82-26293 *	#	US-PATENT-4,321,572	c 33	N82-24422 *	#
US-PATENT-4,239,057	c 37	N81-17433 *	#	US-PATENT-4,278,351	c 74	N81-29963 *	#	US-PATENT-4,325,001	c 35	N82-24471 *	#
US-PATENT-4,240,256	c 37	N81-17432 *	#	US-PATENT-4,278,830	c 44	N81-29525 *	#	US-PATENT-4,325,707	c 25	N82-29371 *	#
US-PATENT-4,240,290	c 06	N81-17057 *	#	US-PATENT-4,278,830	c 44	N82-28780 *	#	US-PATENT-4,326,381	c 44	N82-24640 *	#
US-PATENT-4,240,601	c 43	N81-17499 *	#	US-PATENT-4,278,978	c 32	N81-29308 *	#	US-PATENT-4,326,685	c 04	N82-23231 *	#
US-PATENT-4,241,308	c 33	N81-17349 *	#	US-PATENT-4,279-018	c 33	N81-33405 *	#	US-PATENT-4,327,150	c 27	N82-24340 *	#
US-PATENT-4,241,312	c 35	N81-19427 *	#	US-PATENT-4,279,001	c 33	N82-24416 *	#	US-PATENT-4,327,437	c 60	N82-29013 *	#
US-PATENT-4,242,498	c 27	N81-17259 *	#	US-PATENT-4,279,632	c 31	N81-33319 *	#	US-PATENT-4,327,581	c 09	N82-23254 *	#
US-PATENT-4,242,553	c 33	N81-19389 *	#	US-PATENT-4,279,906	c 52	N81-29764 *	#	US-PATENT-4,328,464	c 36	N82-28616 *	#
US-PATENT-4,242,864	c 07	N81-19116 *	#	US-PATENT-4,280,141	c 33	N81-33403 *	#	US-PATENT-4,329,114	c 07	N82-32366 *	#
US-PATENT-4,243,323	c 74	N81-17888 *	#	US-PATENT-4,280,689	c 37	N81-33482 *	#	US-PATENT-4,329,385	c 27	N82-28440 *	#
US-PATENT-4,243,327	c 74	N81-17887 *	#	US-PATENT-4,280,766	c 35	N81-33448 *	#	US-PATENT-4,330,100	c 05	N82-28279 *	#
US-PATENT-4,244,215	c 04	N81-21047 *	#	US-PATENT-4,281,102	c 27	N81-29229 *	#	US-PATENT-4,330,359	c 76	N82-30105 *	#
US-PATENT-4,244,810	c 09	N82-29330 *	#	US-PATENT-4,281,384	c 18	N81-29152 *	#	US-PATENT-4,330,572	c 27	N82-33520 *	#
US-PATENT-4,244,853	c 27	N81-19296 *	#	US-PATENT-4,281,708	c 33	N82-24419 *	#	US-PATENT-4,331,422	c 52	N82-29862 *	#
US-PATENT-4,244,857	c 27	N81-17260 *	#	US-PATENT-4,282,479	c 33	N82-24420 *	#	US-PATENT-4,331,742	c 44	N82-29710 *	#
US-PATENT-4,245,085	c 27	N81-17262 *	#	US-PATENT-4,282,525	c 46	N82-12685 *	#	US-PATENT-4,331,746	c 44	N82-29708 *	#
US-PATENT-4,245,286	c 33	N81-19392 *	#	US-PATENT-4,282,752	c 44	N82-16474 *	#	US-PATENT-4,331,873	c 44	N82-32841 *	#
US-PATENT-4,245,288	c 33	N81-19393 *	#	US-PATENT-4,283,705	c 06	N82-16075 *	#	US-PATENT-4,331,956	c 33	N82-29538 *	#
US-PATENT-4,245,469	c 44	N81-24519 *	#	US-PATENT-4,283,995	c 37	N81-32510 *	#	US-PATENT-4,332,441	c 36	N82-29589 *	#
US-PATENT-4,245,566	c 31	N81-19343 *	#	US-PATENT-4,284,034	c 51	N81-32829 *	#	US-PATENT-4,335,190	c 27	N83-31855 *	#
US-PATENT-4,245,768	c 37	N81-19455 *	#	US-PATENT-4,284,461	c 27	N82-11206 *	#	US-PATENT-4,335,196	c 44	N83-13579 *	#
US-PATENT-4,245,956	c 05	N81-19087 *	#	US-PATENT-4,284,682	c 27	N82-16238 *	#	US-PATENT-4,335,206	c 35	N82-28604 *	#
US-PATENT-4,246,001	c 27	N81-17261 *	#	US-PATENT-4,286,209	c 35	N82-11431 *	#	US-PATENT-4,335,503	c 44	N82-29709 *	#
US-PATENT-4,246,901	c 52	N81-24711 *	#	US-PATENT-4,286,460	c 09	N82-11088 *	#	US-PATENT-4,336,117	c 26	N82-29415 *	#
US-PATENT-4,247,434	c 25	N81-19242 *	#	US-PATENT-4,286,542	c 37	N82-12441 *	#	US-PATENT-4,336,276	c 27	N82-29453 *	#
US-PATENT-4,248,083	c 35	N81-19426 *	#	US-PATENT-4,287,152	c 35	N82-11432 *	#	US-PATENT-4,336,616	c 33	N82-29539 *	#
US-PATENT-4,249,116	c 33	N81-20352 *	#	US-PATENT-4,287,518	c 32	N82-11336 *	#	US-PATENT-4,338,061	c 07	N83-31603 *	#
US-PATENT-4,249,238	c 07	N81-19115 *	#	US-PATENT-4,287,578	c 32	N82-18443 *	#	US-PATENT-4,338,368	c 27	N82-29456 *	#
US-PATENT-4,249,417	c 52	N81-20703 *	#	US-PATENT-4,287,606	c 74	N82-19029 *	#	US-PATENT-4,338,371	c 24	N82-29362 *	#
US-PATENT-4,249,957	c 44	N81-19558 *	#	US-PATENT-4,287,838	c 25	N82-11144 *	#	US-PATENT-4,338,371	c 54	N84-11758 *	#
US-PATENT-4,250,143	c 54	N81-24724 *	#	US-PATENT-4,288,585	c 27	N82-18389 *	#	US-PATENT-4,338,516	c 74	N82-30071 *	#
US-PATENT-4,252,007	c 33	N81-25299 *	#	US-PATENT-4,288,982	c 20	N82-18314 *	#	US-PATENT-4,338,568	c 33	N83-31954 *	#
US-PATENT-4,252,111	c 52	N81-25661 *	#	US-PATENT-4,290,612	c 37	N82-16408 *	#	US-PATENT-4,340,318	c 37	N82-32732 *	#
US-PATENT-4,252,440	c 39	N81-25400 *	#	US-PATENT-4,290,779	c 44	N82-16475 *	#	US-PATENT-4,340,425	c 26	N82-31505 *	#
US-PATENT-4,252,768	c 37	N81-25371 *	#	US-PATENT-4,291,294	c 04	N82-16059 *	#	US-PATENT-4,341,012	c 35	N82-31659 *	#
US-PATENT-4,253,156	c 34	N81-26402 *	#	US-PATENT-4,291,887	c 37	N82-12442 *	#	US-PATENT-4,341,843	c 26	N82-30371 *	#
US-PATENT-4,253,769	c 25	N81-25159 *	#	US-PATENT-4,292,375	c 24	N82-24296 *	#	US-PATENT-4,341,918	c 44	N82-31764 *	#
US-PATENT-4,254,464	c 62	N81-24779 *	#	US-PATENT-4,292,634	c 32	N82-12297 *	#	US-PATENT-4,341,925	c 32	N82-31583 *	#
US-PATENT-4,255,048	c 36	N81-24422 *	#	US-PATENT-4,293,522	c 25	N82-12166 *	#	US-PATENT-4,342,287	c 37	N82-32730 *	#
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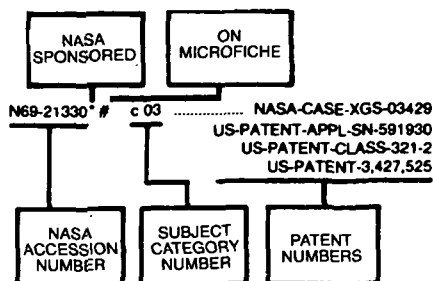
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N69-27484* #	c 14	NASA-CASE-XLA-04556 US-PATENT-APPL-SN-607608 US-PATENT-CLASS-250-83 US-PATENT-3,433,953	N69-39890* #	c 03	NASA-CASE-XLE-02824 US-PATENT-APPL-SN-487343 US-PATENT-CLASS-310-10 US-PATENT-3,443,128	N70-12512* #	c 06	NASA-CASE-NPO-10447 US-PATENT-APPL-SN-848351 US-PATENT-CLASS-MSC-12259-1 US-PATENT-APPL-SN-853763
N69-27485* #	c 14	NASA-CASE-XGS-02401 US-PATENT-APPL-SN-502740 US-PATENT-CLASS-250-203 US-PATENT-3,428,812	N69-39895* #	c 18	NASA-CASE-XNP-06508 US-PATENT-APPL-SN-617776 US-PATENT-CLASS-117-21 US-PATENT-3,446,642	N70-12616* #	c 07	NASA-CASE-MSC-12259-1 US-PATENT-APPL-SN-853763 US-PATENT-CLASS-MFS-14741 US-PATENT-APPL-SN-880247
N69-27486* #	c 14	NASA-CASE-XAC-11225 US-PATENT-APPL-SN-638707 US-PATENT-CLASS-248-18 US-PATENT-3,430,902	N69-39896* #	c 14	NASA-CASE-XAC-02970 US-PATENT-APPL-SN-447930 US-PATENT-CLASS-250-217 US-PATENT-3,452,872	N70-20737* #	c 09	NASA-CASE-MFS-14741 US-PATENT-APPL-SN-880247 US-PATENT-CLASS-XMS-04890-1 US-PATENT-APPL-SN-797057
N69-27487* #	c 04	NASA-CASE-XGS-05533 US-PATENT-APPL-SN-568346 US-PATENT-CLASS-195-68 US-PATENT-3,437,560	N69-39897* #	c 09	NASA-CASE-XAC-08981 US-PATENT-APPL-SN-634060 US-PATENT-CLASS-317-16 US-PATENT-3,450,946	N70-22192* #	c 15	NASA-CASE-XMS-04890-1 US-PATENT-APPL-SN-797057 US-PATENT-CLASS-60-258 US-PATENT-3,490,238
N69-27490* #	c 15	NASA-CASE-XLA-02854 US-PATENT-APPL-SN-598118 US-PATENT-CLASS-285-3 US-PATENT-3,427,047	N69-39898* #	c 03	NASA-CASE-XLE-01015 US-PATENT-APPL-SN-502746 US-PATENT-CLASS-310-4 US-PATENT-3,446,997	N70-26819* #	c 15	NASA-CASE-LAR-10590-1 US-PATENT-APPL-SN-21732 US-PATENT-CLASS-XMF-00447 US-PATENT-APPL-SN-134479
N69-27491* #	c 16	NASA-CASE-XGS-04480 US-PATENT-APPL-SN-591007 US-PATENT-CLASS-250-199 US-PATENT-3,433,960	N69-39899* #	c 09	NASA-CASE-XNP-09776 US-PATENT-APPL-SN-617779 US-PATENT-CLASS-310-4 US-PATENT-3,446,998	N70-33179* #	c 14	NASA-CASE-XMF-00447 US-PATENT-APPL-SN-134479 US-PATENT-CLASS-340-198 US-PATENT-3,041,587
N69-27499* #	c 31	NASA-CASE-XMS-12158-1 US-PATENT-APPL-SN-762936 US-PATENT-CLASS-244-1 US-PATENT-3,439,886	N69-39935* #	c 15	NASA-CASE-XNP-08882 US-PATENT-APPL-SN-640784 US-PATENT-CLASS-220-14 US-PATENT-3,446,387	N70-33180* #	c 15	NASA-CASE-XLA-00137 US-PATENT-APPL-SN-8203 US-PATENT-CLASS-93-1 US-PATENT-3,010,372
N69-27500* #	c 09	NASA-CASE-XNP-09228 US-PATENT-APPL-SN-584070 US-PATENT-CLASS-307-136 US-PATENT-3,430,063	N69-39936* #	c 06	NASA-CASE-XNP-04816 US-PATENT-APPL-SN-578926 US-PATENT-CLASS-73-23.1 US-PATENT-3,443,416	N70-33181* #	c 21	NASA-CASE-XLA-00120 US-PATENT-APPL-SN-853984 US-PATENT-CLASS-250-83.3 US-PATENT-3,038,077
N69-27502* #	c 15	NASA-CASE-XMF-04132 US-PATENT-APPL-SN-640788 US-PATENT-CLASS-220-55 US-PATENT-3,429,477	N69-39937* #	c 14	NASA-CASE-XNP-09750 US-PATENT-APPL-SN-632162 US-PATENT-CLASS-250-83 US-PATENT-3,456,112	N70-33182* #	c 09	NASA-CASE-XAC-00086 US-PATENT-APPL-SN-824755 US-PATENT-CLASS-340-147 US-PATENT-3,059,220
N69-27503* #	c 14	NASA-CASE-XFR-09479 US-PATENT-APPL-SN-653278 US-PATENT-CLASS-73-49.8 US-PATENT-3,433,079	N69-39974* #	c 07	NASA-CASE-XGS-05918 US-PATENT-APPL-SN-685497 US-PATENT-CLASS-343-7.5 US-PATENT-3,430,237	N70-33226* #	c 15	NASA-CASE-XLE-00020 US-PATENT-APPL-SN-387332 US-PATENT-CLASS-253-39.15 US-PATENT-3,011,760
N69-27504* #	c 15	NASA-CASE-XNP-09452 US-PATENT-APPL-SN-640789 US-PATENT-CLASS-267-1 US-PATENT-3,430,942	N69-39975* #	c 14	NASA-CASE-XLA-01781 US-PATENT-APPL-SN-441936 US-PATENT-CLASS-73-86 US-PATENT-3,425,268	N70-33241* #	c 28	NASA-CASE-XLE-00103 US-PATENT-APPL-SN-517100 US-PATENT-CLASS-60-39.74 US-PATENT-2,940,259
N69-27505* #	c 15	NASA-CASE-XLA-09122 US-PATENT-APPL-SN-619903 US-PATENT-CLASS-64-28 US-PATENT-3,430,460	N69-39978* #	c 07	NASA-CASE-XGS-02749 US-PATENT-APPL-SN-502753 US-PATENT-CLASS-179-15 US-PATENT-3,450,842	N70-33242* #	c 31	NASA-CASE-XLA-00165 US-PATENT-APPL-SN-47120 US-PATENT-CLASS-244-117 US-PATENT-3,028,128
N69-27871* #	c 15	NASA-CASE-XMS-04318 US-PATENT-APPL-SN-521996 US-PATENT-CLASS-219-347 US-PATENT-3,431,397	N69-39979* #	c 18	NASA-CASE-XGS-04119 US-PATENT-APPL-SN-452945 US-PATENT-CLASS-106-74 US-PATENT-3,454,410	N70-33254* #	c 14	NASA-CASE-XLA-00062 US-PATENT-APPL-SN-853983 US-PATENT-CLASS-88-16 US-PATENT-3,041,924
N69-31244* #	c 06	NASA-CASE-NPO-10714 US-PATENT-APPL-SN-817569 US-PATENT-CLASS-ERC-10187 US-PATENT-APPL-SN-825253	N69-39980* #	c 07	NASA-CASE-XGS-05211 US-PATENT-APPL-SN-590145 US-PATENT-CLASS-250-209 US-PATENT-3,444,380	N70-33255* #	c 02	NASA-CASE-XLA-00230 US-PATENT-CLASS-244-43 US-PATENT-3,053,484
N69-33482* #	c 26	NASA-CASE-ERC-10120 US-PATENT-APPL-SN-827597 US-PATENT-CLASS-XMF-03873 US-PATENT-APPL-SN-543774	N69-39981* #	c 01	NASA-CASE-XLA-06095 US-PATENT-APPL-SN-683612 US-PATENT-CLASS-244-138 US-PATENT-3,443,779	N70-33264* #	c 15	NASA-CASE-XLE-00092 US-PATENT-APPL-SN-835146 US-PATENT-CLASS-253-39.15 US-PATENT-3,057,597
N69-39733* #	c 06	NASA-CASE-XMF-04238 US-PATENT-APPL-SN-562443	N69-39982* #	c 14	NASA-CASE-XGS-01725 US-PATENT-APPL-SN-483891	N70-33265* #	c 28	NASA-CASE-XLE-00817 US-PATENT-APPL-SN-264735 US-PATENT-CLASS-60-35.3 US-PATENT-3,173,246
N69-39734* #	c 09					N70-33266* #	c 02	NASA-CASE-XLA-00221 US-PATENT-APPL-SN-51473 US-PATENT-CLASS-244-46 US-PATENT-3,064,928
						N70-33267* #	c 25	NASA-CASE-XLA-00675 US-PATENT-APPL-SN-178213 US-PATENT-CLASS-315-111 US-PATENT-3,171,060
						N70-33278* #	c 11	NASA-CASE-XLE-00168 US-PATENT-APPL-SN-842170 US-PATENT-CLASS-73-116 US-PATENT-3,063,291

N70-33279*	c 21	NASA-CASE-XFR-00181 US-PATENT-APPL-SN-28175 US-PATENT-CLASS-244-83 US-PATENT-3,028,126	N70-33386*	c 14	NASA-CASE-XLA-00113 US-PATENT-APPL-SN-2792 US-PATENT-CLASS-73-147 US-PATENT-3,001,395	N70-34559* #	c 09	NASA-CASE-LAR-10218-1 US-PATENT-APPL-SN-47441
N70-33283*	c 17	NASA-CASE-XLE-00151 US-PATENT-APPL-SN-848481 US-PATENT-CLASS-75-171 US-PATENT-2,971,837	N70-34134* #	c 03	NASA-CASE-XLE-00212 US-PATENT-APPL-SN-151598 US-PATENT-CLASS-310-4 US-PATENT-3,202,844	N70-34596* #	c 09	NASA-CASE-XMF-00324 US-PATENT-APPL-SN-109789 US-PATENT-CLASS-339-176 US-PATENT-3,189,864
N70-33284*	c 28	NASA-CASE-XLE-00078 US-PATENT-APPL-SN-18776 US-PATENT-CLASS-60-35.6 US-PATENT-3,049,876	N70-34135* #	c 31	NASA-CASE-XLA-00686 US-PATENT-APPL-SN-195347 US-PATENT-CLASS-343-833 US-PATENT-3,202,998	N70-34646* #	c 03	NASA-CASE-NPO-11138 US-PATENT-APPL-SN-9251
N70-33285*	c 05	NASA-CASE-XLA-00118 US-PATENT-APPL-SN-840983 US-PATENT-CLASS-5-345 US-PATENT-3,038,175	N70-34156* #	c 14	NASA-CASE-XLE-00266 US-PATENT-APPL-SN-202024 US-PATENT-CLASS-73-15 US-PATENT-3,204,447	N70-34661* #	c 25	NASA-CASE-XLA-00147 US-PATENT-APPL-SN-178215 US-PATENT-CLASS-313-156 US-PATENT-3,201,635
N70-33286*	c 02	NASA-CASE-XLA-00142 US-PATENT-APPL-SN-26375 US-PATENT-CLASS-244-46 US-PATENT-3,028,122	N70-34157* #	c 03	NASA-CASE-XMF-00517 US-PATENT-APPL-SN-216711 US-PATENT-CLASS-244-1 US-PATENT-3,204,889	N70-34664* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-278790 US-PATENT-CLASS-308-9 US-PATENT-3,199,931
N70-33287*	c 11	NASA-CASE-XLA-00112 US-PATENT-APPL-SN-843022 US-PATENT-CLASS-73-147 US-PATENT-3,005,339	N70-34158* #	c 14	NASA-CASE-XGS-00359 US-PATENT-APPL-SN-94952 US-PATENT-CLASS-250-203 US-PATENT-3,205,361	N70-34675* #	c 08	NASA-CASE-XNP-04162-1 US-PATENT-APPL-SN-872664
N70-33288*	c 17	NASA-CASE-XLE-02428 US-PATENT-APPL-SN-339821 US-PATENT-CLASS-29-198 US-PATENT-3,170,773	N70-34159* #	c 31	NASA-CASE-XMF-003856 US-PATENT-APPL-SN-416941 US-PATENT-CLASS-248-188.9 US-PATENT-3,208,707	N70-34697* #	c 14	NASA-CASE-NPO-11106 US-PATENT-APPL-SN-15020
N70-33305*	c 12	NASA-CASE-XLA-00229 US-PATENT-APPL-SN-18780 US-PATENT-CLASS-114-66.5 US-PATENT-3,016,863	N70-34160* #	c 02	NASA-CASE-XLA-01804 US-PATENT-APPL-SN-353637 US-PATENT-CLASS-244-50 US-PATENT-3,208,694	N70-34699* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-15023
N70-33311*	c 15	NASA-CASE-XLE-00046 US-PATENT-APPL-SN-686796 US-PATENT-CLASS-29-488 US-PATENT-3,008,229	N70-34161* #	c 14	NASA-CASE-XLA-00203 US-PATENT-APPL-SN-227682 US-PATENT-CLASS-73-105 US-PATENT-3,208,272	N70-34705* #	c 14	NASA-CASE-XMF-00456 US-PATENT-APPL-SN-298800 US-PATENT-CLASS-73-88.5 US-PATENT-3,212,325
N70-33312*	c 09	NASA-CASE-XLA-00141 US-PATENT-APPL-SN-19971 US-PATENT-CLASS-219-34 US-PATENT-3,005,081	N70-34162* #	c 28	NASA-CASE-XMF-01544 US-PATENT-APPL-SN-394638 US-PATENT-CLASS-60-35.5 US-PATENT-3,208,215	N70-34743* #	c 08	NASA-CASE-XGS-00174 US-PATENT-APPL-SN-120803 US-PATENT-CLASS-307-88 US-PATENT-3,198,955
N70-33322*	c 14	NASA-CASE-XLA-00135 US-PATENT-APPL-SN-861152 US-PATENT-CLASS-244-14 US-PATENT-3,004,735	N70-34175* #	c 28	NASA-CASE-XLE-01783 US-PATENT-APPL-SN-313132 US-PATENT-CLASS-60-35.5 US-PATENT-3,210,927	N70-34778* #	c 08	NASA-CASE-XLA-00471 US-PATENT-APPL-SN-197553 US-PATENT-CLASS-235-154 US-PATENT-3,194,951
N70-33323*	c 15	NASA-CASE-XMF-00341 US-PATENT-APPL-SN-77256 US-PATENT-CLASS-62-45 US-PATENT-3,012,407	N70-34176* #	c 31	NASA-CASE-XMF-00389 US-PATENT-APPL-SN-151114 US-PATENT-CLASS-244-1 US-PATENT-3,202,381	N70-34783* #	c 27	NASA-CASE-XLA-00304 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-18-39 US-PATENT-3,193,883
N70-33329*	c 11	NASA-CASE-XLA-00119 US-PATENT-APPL-SN-842171 US-PATENT-CLASS-240-1.2 US-PATENT-2,984,735	N70-34178* #	c 02	NASA-CASE-XLA-00166 US-PATENT-APPL-SN-84961 US-PATENT-CLASS-244-46 US-PATENT-3,087,692	N70-34786* #	c 11	NASA-CASE-XLA-00493 US-PATENT-APPL-SN-202029 US-PATENT-CLASS-73-432 US-PATENT-3,196,690
N70-33330*	c 15	NASA-CASE-XLE-00023 US-PATENT-APPL-SN-512352 US-PATENT-CLASS-78-1 US-PATENT-2,991,671	N70-34247* #	c 15	NASA-CASE-XLE-00288 US-PATENT-APPL-SN-118200 US-PATENT-CLASS-62-50 US-PATENT-3,068,658	N70-34787* #	c 08	NASA-CASE-XGS-00689 US-PATENT-APPL-SN-250451 US-PATENT-CLASS-235-176 US-PATENT-3,196,261
N70-33331*	c 28	NASA-CASE-XLA-00105 US-PATENT-APPL-SN-719173 US-PATENT-CLASS-60-35.6 US-PATENT-3,001,363	N70-34249* #	c 15	NASA-CASE-XMF-00375 US-PATENT-APPL-SN-166969 US-PATENT-CLASS-72-56 US-PATENT-3,188,844	N70-34788* #	c 28	NASA-CASE-XLE-00388 US-PATENT-APPL-SN-234568 US-PATENT-CLASS-55-306 US-PATENT-3,196,598
N70-33332*	c 02	NASA-CASE-XLA-00087 US-PATENT-APPL-SN-811509 US-PATENT-CLASS-244-12 US-PATENT-2,991,961	N70-34294* #	c 28	NASA-CASE-XLE-00208 US-PATENT-APPL-SN-106135 US-PATENT-CLASS-60-35.54 US-PATENT-3,132,476	N70-34794* #	c 14	NASA-CASE-XMF-00479 US-PATENT-APPL-SN-169977 US-PATENT-CLASS-73-71.2 US-PATENT-3,194,060
N70-33343*	c 03	NASA-CASE-XLA-00115 US-PATENT-APPL-SN-847027 US-PATENT-CLASS-244-1 US-PATENT-3,001,739	N70-34295* #	c 21	NASA-CASE-XLA-01989 US-PATENT-APPL-SN-305020 US-PATENT-CLASS-244-1 US-PATENT-3,189,299	N70-34799* #	c 14	NASA-CASE-XLA-00492 US-PATENT-APPL-SN-284265 US-PATENT-CLASS-73-88.5 US-PATENT-3,199,340
N70-33344*	c 33	NASA-CASE-XMS-00486 US-PATENT-APPL-SN-300113 US-PATENT-CLASS-244-1 US-PATENT-3,130,940	N70-34296* #	c 31	NASA-CASE-XLA-00678 US-PATENT-APPL-SN-197551 US-PATENT-CLASS-244-1 US-PATENT-3,169,725	N70-34812* #	c 33	NASA-CASE-XLE-00387 US-PATENT-APPL-SN-203411 US-PATENT-CLASS-219-19 US-PATENT-3,108,171
N70-33356*	c 28	NASA-CASE-XLE-00267 US-PATENT-APPL-SN-58147 US-PATENT-CLASS-60-35.5 US-PATENT-3,016,693	N70-34297* #	c 21	NASA-CASE-XGS-00466 US-PATENT-APPL-SN-123597 US-PATENT-CLASS-250-83.3 US-PATENT-3,188,472	N70-34813* #	c 14	NASA-CASE-XAC-00073 US-PATENT-APPL-SN-47122 US-PATENT-CLASS-73-147 US-PATENT-3,100,990
N70-33372*	c 28	NASA-CASE-XLE-00037 US-PATENT-APPL-SN-639589 US-PATENT-CLASS-253-39.15 US-PATENT-2,974,925	N70-34298* #	c 14	NASA-CASE-XMF-00462 US-PATENT-APPL-SN-148001 US-PATENT-CLASS-88-14 US-PATENT-3,185,023	N70-34814* #	c 15	NASA-CASE-XMF-00392 US-PATENT-APPL-SN-151112 US-PATENT-CLASS-219-137 US-PATENT-3,102,948
N70-33374*	c 28	NASA-CASE-XLA-00154 US-PATENT-APPL-SN-31242 US-PATENT-CLASS-60-35.6 US-PATENT-3,012,400	N70-34502* #	c 09	NASA-CASE-XMF-00421 US-PATENT-APPL-SN-197548 US-PATENT-CLASS-317-140 US-PATENT-3,189,794	N70-34815* #	c 11	NASA-CASE-XAC-00399 US-PATENT-APPL-SN-134481 US-PATENT-CLASS-35-12 US-PATENT-3,196,557
N70-33375*	c 28	NASA-CASE-XLE-00207 US-PATENT-APPL-SN-180370 US-PATENT-CLASS-60-35.6 US-PATENT-3,173,251	N70-34539* #	c 21	NASA-CASE-XMF-00185 US-PATENT-APPL-SN-97112 US-PATENT-CLASS-244-76 US-PATENT-3,070,330	N70-34816* #	c 14	NASA-CASE-XAC-00042 US-PATENT-APPL-SN-734805 US-PATENT-CLASS-73-398 US-PATENT-3,022,672
N70-33376*	c 15	NASA-CASE-XLE-00101 US-PATENT-APPL-SN-551961 US-PATENT-CLASS-251-173 US-PATENT-2,945,667	N70-34540* #	c 33	NASA-CASE-XLA-00330 US-PATENT-APPL-SN-264729 US-PATENT-CLASS-219-121 US-PATENT-3,201,560	N70-34817* #	c 15	NASA-CASE-XAC-00074 US-PATENT-APPL-SN-47123 US-PATENT-CLASS-137-340 US-PATENT-3,158,172
N70-33382*	c 15	NASA-CASE-XLE-00010 US-PATENT-APPL-SN-554899 US-PATENT-CLASS-266-19 US-PATENT-2,934,331	N70-34545* #	c 33	NASA-CASE-XLE-00490 US-PATENT-APPL-SN-252259 US-PATENT-CLASS-219-347 US-PATENT-3,189,726	N70-34818* #	c 14	NASA-CASE-XLE-00503 US-PATENT-APPL-SN-261912 US-PATENT-CLASS-73-136 US-PATENT-3,196,675
						N70-34819* #	c 09	NASA-CASE-XGS-00381 US-PATENT-APPL-SN-104188 US-PATENT-CLASS-307-88.5 US-PATENT-3,085,165
						N70-34820* #	c 14	NASA-CASE-XAC-00030 US-PATENT-APPL-SN-760819

		US-PATENT-CLASS-73-401				US-PATENT-APPL-SN-178721				US-PATENT-3,150,387
		US-PATENT-3,024,659				US-PATENT-CLASS-310-5				NASA-CASE-XMF-00923
N70-34844* #	c 11	NASA-CASE-XLE-00252				US-PATENT-3,205,381		N70-36802* #	c 28	US-PATENT-APPL-SN-264736
		US-PATENT-APPL-SN-144803		N70-35409* #	c 15	NASA-CASE-XHQ-01208				US-PATENT-CLASS-60-35.5
		US-PATENT-CLASS-73-116				US-PATENT-APPL-SN-42022				US-PATENT-3,159,967
		US-PATENT-3,199,343				US-PATENT-CLASS-121-38		N70-36803* #	c 03	NASA-CASE-XNP-00644
N70-34850* #	c 15	NASA-CASE-XLA-00754				US-PATENT-3,088,441				US-PATENT-APPL-SN-212496
		US-PATENT-APPL-SN-209479		N70-35422* #	c 28	NASA-CASE-LEW-10814-1				US-PATENT-CLASS-310-11
		US-PATENT-CLASS-244-100				US-PATENT-APPL-SN-38262				US-PATENT-3,158,764
		US-PATENT-3,143,321		N70-35423* #	c 08	NASA-CASE-XNP-00432		N70-36804* #	c 02	NASA-CASE-XLA-00898
N70-34856* #	c 02	NASA-CASE-XAC-00139				US-PATENT-APPL-SN-127234				US-PATENT-APPL-SN-227683
		US-PATENT-APPL-SN-168560				US-PATENT-CLASS-340-347				US-PATENT-CLASS-244-152
		US-PATENT-CLASS-244-51				US-PATENT-3,172,097				US-PATENT-3,170,660
		US-PATENT-3,144,999		N70-35425* #	c 09	NASA-CASE-XNP-00683		N70-36805* #	c 26	NASA-CASE-XLA-00158
N70-34857* #	c 05	NASA-CASE-XMS-00863				US-PATENT-APPL-SN-251451				US-PATENT-APPL-SN-221637
		US-PATENT-APPL-SN-221634				US-PATENT-CLASS-343-781				US-PATENT-CLASS-23-208
		US-PATENT-CLASS-9-11				US-PATENT-3,209,361				US-PATENT-3,174,827
		US-PATENT-3,155,992		N70-35427* #	c 21	NASA-CASE-XGS-00809		N70-36806* #	c 28	NASA-CASE-XLE-00145
N70-34858* #	c 02	NASA-CASE-XLA-00806				US-PATENT-APPL-SN-85585				US-PATENT-APPL-SN-173081
		US-PATENT-APPL-SN-181828				US-PATENT-CLASS-88-1				US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-26375				US-PATENT-3,083,611				US-PATENT-3,174,279
		US-PATENT-CLASS-244-46		N70-35440* #	c 09	NASA-CASE-XAC-00435		N70-36807* #	c 14	NASA-CASE-XLA-00100
		US-PATENT-3,170,657				US-PATENT-APPL-SN-164428				US-PATENT-APPL-SN-534901
N70-34859* #	c 15	NASA-CASE-XLE-00715				US-PATENT-CLASS-330-14				US-PATENT-CLASS-73-178
		US-PATENT-APPL-SN-212174				US-PATENT-3,196,362				US-PATENT-3,168,827
		US-PATENT-CLASS-251-333		N70-35534* #	c 27	NASA-CASE-XGS-03556		N70-36824* #	c 14	NASA-CASE-XLA-00481
		US-PATENT-3,191,907				US-PATENT-APPL-SN-94259				US-PATENT-APPL-SN-120797
N70-34860* #	c 28	NASA-CASE-XLE-00144				US-PATENT-CLASS-60-35.6				US-PATENT-CLASS-73-212
		US-PATENT-APPL-SN-177684				US-PATENT-3,191,379		N70-36825* #	c 02	US-PATENT-3,170,324
		US-PATENT-CLASS-60-35.6		N70-35587* #	c 14	NASA-CASE-FRC-10053				NASA-CASE-XLA-01583
		US-PATENT-3,120,101				US-PATENT-APPL-SN-33398				US-PATENT-APPL-SN-327565
N70-34861* #	c 15	NASA-CASE-XLE-00810				NASA-CASE-XNP-00646				US-PATENT-CLASS-244-103
		US-PATENT-APPL-SN-249540		N70-35666* #	c 14	US-PATENT-APPL-SN-173981				US-PATENT-3,169,001
		US-PATENT-CLASS-188-1				US-PATENT-CLASS-324-33		N70-36845* #	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222				US-PATENT-3,171,081				US-PATENT-APPL-SN-372727
N70-34946* #	c 06	NASA-CASE-XNP-00733		N70-35679* #	c 15	NASA-CASE-MS-12279-1				US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484				US-PATENT-APPL-SN-24154				US-PATENT-3,181,821
		US-PATENT-CLASS-62-15		N70-36400* #	c 18	NASA-CASE-XMS-00259		N70-36846* #	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730				US-PATENT-APPL-SN-145007				US-PATENT-APPL-SN-223003
N70-34966* #	c 31	NASA-CASE-XFR-00929				US-PATENT-CLASS-117-69				US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868				US-PATENT-3,157,529				US-PATENT-3,180,264
		US-PATENT-CLASS-35-12		N70-36409* #	c 15	NASA-CASE-XLA-00482		N70-36847* #	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316				US-PATENT-APPL-SN-166970				US-PATENT-APPL-SN-259487
N70-34967* #	c 15	NASA-CASE-XNP-00595				US-PATENT-CLASS-29-423				US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594				US-PATENT-3,160,950				US-PATENT-3,177,933
		US-PATENT-CLASS-204-298		N70-36410* #	c 31	NASA-CASE-XMF-00641		N70-36901* #	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535				US-PATENT-APPL-SN-221945				US-PATENT-APPL-SN-257346
N70-35087* #	c 15	NASA-CASE-XGS-00587				US-PATENT-CLASS-244-1				US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135				US-PATENT-3,158,336				US-PATENT-3,166,834
		US-PATENT-CLASS-137-340		N70-36411* #	c 15	NASA-CASE-XLE-00164		N70-36907* #	c 14	NASA-CASE-XNP-00614
		US-PATENT-3,211,169				US-PATENT-APPL-SN-107870				US-PATENT-APPL-SN-247419
N70-35089* #	c 21	NASA-CASE-XNP-00438				US-PATENT-CLASS-60-39.66				US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381				US-PATENT-3,162,012				US-PATENT-3,163,935
		US-PATENT-CLASS-250-203		N70-36412* #	c 15	NASA-CASE-XLE-00170		N70-36908* #	c 15	NASA-CASE-XNP-00214
		US-PATENT-3,205,362				US-PATENT-APPL-SN-232914				US-PATENT-APPL-SN-180377
N70-35152* #	c 05	NASA-CASE-XMS-01240				US-PATENT-CLASS-253-66				US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324				US-PATENT-3,164,369				US-PATENT-3,140,728
		US-PATENT-CLASS-297-216		N70-36492* #	c 15	NASA-CASE-XLE-00397		N70-36910* #	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356				US-PATENT-APPL-SN-195346				US-PATENT-APPL-SN-211464
N70-35219* #	c 09	NASA-CASE-XNP-00611				US-PATENT-CLASS-137-614				US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443				US-PATENT-3,170,486				US-PATENT-3,170,290
		US-PATENT-CLASS-343-781		N70-36493* #	c 05	NASA-CASE-XMS-00864		N70-36911* #	c 07	NASA-CASE-XNP-00748
		US-PATENT-3,209,360				US-PATENT-APPL-SN-258932				US-PATENT-APPL-SN-184649
N70-35220* #	c 14	NASA-CASE-XNP-00449				US-PATENT-CLASS-9-316				US-PATENT-CLASS-343-17.2
		US-PATENT-APPL-SN-118169				US-PATENT-3,152,344				US-PATENT-3,183,506
		US-PATENT-CLASS-330-49		N70-36494* #	c 09	NASA-CASE-XMF-00369		N70-36913* #	c 11	NASA-CASE-XMF-00411
		US-PATENT-3,160,825				US-PATENT-APPL-SN-134782				US-PATENT-APPL-SN-158914
N70-35368* #	c 14	NASA-CASE-XLE-00335				US-PATENT-CLASS-339-176				US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-197554				US-PATENT-3,149,897				US-PATENT-3,182,496
		US-PATENT-CLASS-73-15.6		N70-36535* #	c 15	NASA-CASE-XLE-00303		N70-36938* #	c 21	NASA-CASE-XNP-00294
		US-PATENT-3,176,499				US-PATENT-APPL-SN-182692				US-PATENT-APPL-SN-182696
N70-35381* #	c 28	NASA-CASE-XHQ-01897				US-PATENT-CLASS-60-35.6				US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-129579				US-PATENT-3,170,286				US-PATENT-3,178,883
		US-PATENT-CLASS-60-35.6		N70-36536* #	c 32	NASA-CASE-XLA-00204		N70-36943* #	c 21	NASA-CASE-XLA-00281
		US-PATENT-3,121,309				US-PATENT-APPL-SN-189648				US-PATENT-APPL-SN-84962
N70-35382* #	c 09	NASA-CASE-XNP-00540				US-PATENT-CLASS-135-1				US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-140509				US-PATENT-3,170,471				US-PATENT-3,180,587
		US-PATENT-CLASS-343-781		N70-36616* #	c 17	NASA-CASE-XLE-00283		N70-36946* #	c 25	NASA-CASE-XLA-01354
		US-PATENT-3,212,096				US-PATENT-APPL-SN-107866				US-PATENT-APPL-SN-253774
N70-35383* #	c 11	NASA-CASE-XMF-00580				US-PATENT-CLASS-75-171				US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-343425				US-PATENT-3,167,426				US-PATENT-3,174,278
		US-PATENT-CLASS-248-119		N70-36617* #	c 33	NASA-CASE-XLA-01291		N70-36947* #	c 15	NASA-CASE-XNP-00416
		US-PATENT-3,194,525				US-PATENT-APPL-SN-277961				US-PATENT-APPL-SN-180395
N70-35394* #	c 14	NASA-CASE-XNP-00708				US-PATENT-CLASS-244-1				US-PATENT-CLASS-189-36
		US-PATENT-APPL-SN-281069				US-PATENT-3,176,933				US-PATENT-3,169,613
		US-PATENT-CLASS-35-45		N70-36618* #	c 14	NASA-CASE-XLE-00143		N70-37245* #	c 28	NASA-CASE-XLE-00376
		US-PATENT-3,196,558				US-PATENT-APPL-SN-104187				US-PATENT-APPL-SN-139007
N70-35395* #	c 21	NASA-CASE-XNP-00465				US-PATENT-CLASS-324-61				US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-180379				US-PATENT-3,176,222				US-PATENT-3,156,090
		US-PATENT-CLASS-244-1		N70-36654* #	c 31	NASA-CASE-XMF-02853		N70-37924* #	c 31	NASA-CASE-XGS-00260
		US-PATENT-3,206,141				US-PATENT-APPL-SN-360182				US-PATENT-APPL-SN-187446
N70-35407* #	c 15	NASA-CASE-XLE-00815				US-PATENT-CLASS-244-100				US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-300712				US-PATENT-3,175,789				US-PATENT-3,090,580
		US-PATENT-CLASS-251-11		N70-36778* #	c 03	NASA-CASE-XLA-00838		N70-37925* #	c 15	NASA-CASE-XLA-00128
		US-PATENT-3,211,414				US-PATENT-APPL-SN-192016				US-PATENT-APPL-SN-32496
N70-35408* #	c 03	NASA-CASE-XGS-01593				US-PATENT-CLASS-9-8				US-PATENT-CLASS-73-384

N70-37938* #	c 31	US-PATENT-3,093,000	N70-38601* #	c 15	US-PATENT-3,135,090	N70-39925* #	c 28	US-PATENT-3,229,884
		NASA-CASE-XLA-00149			NASA-CASE-XLA-00679			NASA-CASE-XLE-00660
		US-PATENT-APPL-SN-847023			US-PATENT-APPL-SN-213836			US-PATENT-APPL-SN-231604
N70-37939* #	c 02	US-PATENT-CLASS-244-1	N70-38602* #	c 14	US-PATENT-CLASS-188-1	N70-39930* #	c 03	US-PATENT-CLASS-313-11.5
		US-PATENT-3,093,346			US-PATENT-3,128,845			US-PATENT-3,229,139
		NASA-CASE-XLE-00222			NASA-CASE-XLE-00243			NASA-CASE-XLA-00791
N70-37979* #	c 33	US-PATENT-APPL-SN-77252	N70-38603* #	c 15	US-PATENT-APPL-SN-118203	N70-39931* #	c 28	US-PATENT-APPL-SN-347960
		US-PATENT-CLASS-244-113			US-PATENT-CLASS-324-106			US-PATENT-CLASS-102-49
		US-PATENT-3,098,630			US-PATENT-3,202,915			US-PATENT-3,229,636
N70-37980* #	c 28	NASA-CASE-XLA-00349	N70-38604* #	c 09	NASA-CASE-XNP-00450	N70-40003* #	c 14	NASA-CASE-XNP-01104
		US-PATENT-APPL-SN-141220			US-PATENT-APPL-SN-180394			US-PATENT-APPL-SN-290867
		US-PATENT-CLASS-62-467			US-PATENT-CLASS-137-495			US-PATENT-CLASS-60-39.48
N70-37981* #	c 31	US-PATENT-3,090,212	N70-38620* #	c 15	US-PATENT-3,105,515	N70-40015* #	c 26	US-PATENT-3,229,463
		NASA-CASE-XLE-00342			NASA-CASE-XGS-00458			NASA-CASE-XGS-01036
		US-PATENT-APPL-SN-60531			US-PATENT-APPL-SN-139006			US-PATENT-APPL-SN-227692
N70-37986* #	c 31	US-PATENT-CLASS-60-35.5	N70-38645* #	c 28	US-PATENT-CLASS-307-88	N70-40016* #	c 30	US-PATENT-CLASS-88-14
		US-PATENT-3,119,232			US-PATENT-3,128,389			US-PATENT-3,229,568
		NASA-CASE-XLA-00138			NASA-CASE-XNP-00476			NASA-CASE-XLA-02057
N70-38009* #	c 02	US-PATENT-APPL-SN-8204	N70-38675* #	c 11	US-PATENT-APPL-SN-182698	N70-40062* #	c 15	US-PATENT-APPL-SN-320595
		US-PATENT-CLASS-343-18			US-PATENT-CLASS-308-9			US-PATENT-CLASS-23-277
		US-PATENT-3,115,630			US-PATENT-3,132,903			US-PATENT-3,230,053
N70-38010* #	c 31	NASA-CASE-XLA-00241	N70-38676* #	c 31	NASA-CASE-XNP-00234	N70-40123* #	c 09	NASA-CASE-XGS-00619
		US-PATENT-APPL-SN-61329			US-PATENT-APPL-SN-180382			US-PATENT-APPL-SN-264728
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.54			US-PATENT-CLASS-244-1
N70-38011* #	c 02	US-PATENT-3,104,079	N70-38710* #	c 28	US-PATENT-3,139,725	N70-40124* #	c 12	US-PATENT-3,229,930
		NASA-CASE-XLA-00195			NASA-CASE-XNP-00459			NASA-CASE-XMS-01624
		US-PATENT-APPL-SN-60536			US-PATENT-APPL-SN-180384			US-PATENT-APPL-SN-422867
N70-38020* #	c 15	US-PATENT-CLASS-244-140	N70-38711* #	c 28	US-PATENT-CLASS-73-432	N70-40125* #	c 08	US-PATENT-CLASS-55-408
		US-PATENT-3,079,113			US-PATENT-3,187,582			US-PATENT-3,224,173
		NASA-CASE-XLA-00805			NASA-CASE-XLA-00258			NASA-CASE-XMS-00893
N70-38181* #	c 28	US-PATENT-APPL-SN-181829	N70-38712* #	c 09	US-PATENT-APPL-SN-101029	N70-40156* #	c 15	US-PATENT-APPL-SN-251449
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-244-1			US-PATENT-CLASS-343-18
		US-PATENT-3,120,361			US-PATENT-3,144,219			US-PATENT-3,224,001
N70-38182* #	c 11	NASA-CASE-XLA-00350	N70-38713* #	c 03	NASA-CASE-XMF-00148	N70-40157* #	c 14	NASA-CASE-XLA-00487
		US-PATENT-APPL-SN-153266			US-PATENT-APPL-SN-118202			US-PATENT-APPL-SN-236748
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-73-178
N70-38196* #	c 11	US-PATENT-3,104,082	N70-38995* #	c 09	US-PATENT-3,122,885	N70-40180* #	c 15	US-PATENT-3,221,549
		NASA-CASE-XLE-00345			NASA-CASE-XLA-00057			NASA-CASE-XAC-00472
		US-PATENT-APPL-SN-183978			US-PATENT-APPL-SN-0914			US-PATENT-APPL-SN-209801
N70-38197* #	c 28	US-PATENT-CLASS-62-55	N70-38996* #	c 15	US-PATENT-CLASS-60-35.55	N70-40201* #	c 14	US-PATENT-CLASS-73-142
		US-PATENT-3,122,000			US-PATENT-3,080,711			US-PATENT-3,224,263
		NASA-CASE-XNP-00217			NASA-CASE-XMF-01129			NASA-CASE-XLE-00720
N70-38198* #	c 17	US-PATENT-APPL-SN-180374	N70-38997* #	c 12	US-PATENT-APPL-SN-273534	N70-40202* #	c 07	US-PATENT-APPL-SN-302749
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-318-260			US-PATENT-CLASS-73-134
		US-PATENT-3,122,098			US-PATENT-3,147,422			US-PATENT-3,221,547
N70-38199* #	c 28	NASA-CASE-XNP-00612	N70-39895* #	c 28	NASA-CASE-XGS-00473	N70-40233* #	c 14	NASA-CASE-XMS-01546
		US-PATENT-APPL-SN-228507			US-PATENT-APPL-SN-139012			US-PATENT-APPL-SN-386467
		US-PATENT-CLASS-220-63			US-PATENT-CLASS-200-39			US-PATENT-CLASS-222-45
N70-38200* #	c 07	US-PATENT-3,123,248	N70-39896* #	c 15	US-PATENT-3,141,932	N70-40234* #	c 09	US-PATENT-3,228,558
		NASA-CASE-XMF-00424			NASA-CASE-XGS-00131			NASA-CASE-XLE-01716
		US-PATENT-APPL-SN-159804			US-PATENT-APPL-SN-14488			US-PATENT-APPL-SN-349778
N70-38201* #	c 09	US-PATENT-CLASS-73-517	N70-39897* #	c 18	US-PATENT-CLASS-331-113	N70-40238* #	c 14	US-PATENT-CLASS-126-270
		US-PATENT-3,141,340			US-PATENT-3,150,329			US-PATENT-3,229,682
		NASA-CASE-XLE-00455			NASA-CASE-XNP-00676			NASA-CASE-XMF-00908
N70-38202* #	c 11	US-PATENT-APPL-SN-203409	N70-39898* #	c 14	US-PATENT-APPL-SN-290870	N70-40239* #	c 14	US-PATENT-APPL-SN-241085
		US-PATENT-CLASS-75-222			US-PATENT-CLASS-222-389			US-PATENT-CLASS-250-201
		US-PATENT-3,141,769			US-PATENT-3,170,605			US-PATENT-3,229,099
N70-38225* #	c 15	US-PATENT-3,132,342	N70-39899* #	c 28	US-PATENT-3,100,294	N70-40240* #	c 14	US-PATENT-3,143,651
		NASA-CASE-XLA-00414			NASA-CASE-XLE-00085			NASA-CASE-XMF-00722
		US-PATENT-APPL-SN-209478			US-PATENT-APPL-SN-25175			US-PATENT-APPL-SN-347626
N70-38249* #	c 28	US-PATENT-CLASS-343-705	N70-39924* #	c 15	US-PATENT-CLASS-253-66	N70-40272* #	c 09	US-PATENT-CLASS-307-88.5
		US-PATENT-3,132,342			US-PATENT-3,070,349			
		NASA-CASE-XNP-00738			NASA-CASE-XMF-00339			
N70-38490* #	c 17	US-PATENT-APPL-SN-204015	N70-39922* #	c 05	US-PATENT-APPL-SN-110591	N70-40272* #	c 09	
		US-PATENT-CLASS-174-115			US-PATENT-CLASS-308-9			
		US-PATENT-3,106,603			US-PATENT-3,070,407			
N70-38504* #	c 28	NASA-CASE-XNP-00425	N70-39924* #	c 15	NASA-CASE-XLE-00353	N70-40272* #	c 09	
		US-PATENT-APPL-SN-180396			US-PATENT-APPL-SN-65548			
		US-PATENT-CLASS-89-1.7			US-PATENT-CLASS-252-58			
N70-38505* #	c 28	US-PATENT-3,112,672	N70-39924* #	c 15	US-PATENT-3,072,574	N70-40272* #	c 09	
		NASA-CASE-XNP-00840			NASA-CASE-XMF-00480			
		US-PATENT-APPL-SN-269222			US-PATENT-APPL-SN-144804			

N70-40273* #	c 14	US-PATENT-3,218,479 NASA-CASE-XNP-00637 US-PATENT-APPL-SN-280776 US-PATENT-CLASS-95-58 US-PATENT-3,217,624	N70-41580* #	c 03	US-PATENT-3,295,556 NASA-CASE-XLA-04622 US-PATENT-APPL-SN-277833 US-PATENT-CLASS-126-270 US-PATENT-3,295,512	N70-41811* #	c 15	US-PATENT-3,287,031 NASA-CASE-XNP-01152 US-PATENT-APPL-SN-369337 US-PATENT-CLASS-137-539 US-PATENT-3,302,662
N70-40309* #	c 30	NASA-CASE-XLA-00210 US-PATENT-APPL-SN-82658 US-PATENT-CLASS-343-18 US-PATENT-3,220,004	N70-41581* #	c 05	NASA-CASE-XAC-01404 US-PATENT-APPL-SN-363348 US-PATENT-CLASS-74-471 US-PATENT-3,295,386	N70-41812* #	c 14	NASA-CASE-XMS-03792 US-PATENT-APPL-SN-516159 US-PATENT-CLASS-200-61.45 US-PATENT-3,303,304
N70-40353* #	c 30	NASA-CASE-XMF-03198 US-PATENT-APPL-SN-370134 US-PATENT-CLASS-89-1.7 US-PATENT-3,224,336	N70-41582* #	c 28	NASA-CASE-XMF-01813 US-PATENT-APPL-SN-375674 US-PATENT-CLASS-181-52 US-PATENT-3,270,835	N70-41818* #	c 28	NASA-CASE-XLE-00150 US-PATENT-APPL-SN-843032 US-PATENT-CLASS-29-157.3 US-PATENT-3,035,333
N70-40354* #	c 15	NASA-CASE-XMF-01045 US-PATENT-APPL-SN-355130 US-PATENT-CLASS-188-1 US-PATENT-3,228,492	N70-41583* #	c 18	NASA-CASE-XMF-01030 US-PATENT-APPL-SN-317389 US-PATENT-CLASS-161-115 US-PATENT-3,296,060	N70-41819* #	c 05	NASA-CASE-XAC-00405 US-PATENT-APPL-SN-158916 US-PATENT-CLASS-128-1 US-PATENT-3,302,633
N70-40367* #	c 28	NASA-CASE-XLE-00177 US-PATENT-APPL-SN-10812 US-PATENT-CLASS-60-35.3 US-PATENT-3,045,424	N70-41588* #	c 31	NASA-CASE-XMF-01973 US-PATENT-APPL-SN-375682 US-PATENT-CLASS-244-1 US-PATENT-3,295,790	N70-41829* #	c 15	NASA-CASE-XMF-01371 US-PATENT-APPL-SN-353634 US-PATENT-CLASS-287-119 US-PATENT-3,302,960
N70-40400* #	c 14	NASA-CASE-XAC-00648 US-PATENT-APPL-SN-216939 US-PATENT-CLASS-73-147 US-PATENT-3,218,850	N70-41589* #	c 02	NASA-CASE-XMF-01174 US-PATENT-APPL-SN-410331 US-PATENT-CLASS-244-100 US-PATENT-3,295,798	N70-41855* #	c 31	NASA-CASE-XNP-02982 US-PATENT-APPL-SN-388966 US-PATENT-CLASS-244-1 US-PATENT-3,304,028
N70-41275* #	c 28	NASA-CASE-XNP-01390 US-PATENT-APPL-SN-424157 US-PATENT-CLASS-60-259 US-PATENT-3,300,981	N70-41628* #	c 25	NASA-CASE-XAC-00319 US-PATENT-APPL-SN-77251 US-PATENT-CLASS-315-111 US-PATENT-3,229,155	N70-41856* #	c 21	NASA-CASE-XNP-01307 US-PATENT-APPL-SN-390250 US-PATENT-CLASS-244-1 US-PATENT-3,286,953
N70-41297* #	c 05	NASA-CASE-XMS-01492 US-PATENT-APPL-SN-398131 US-PATENT-CLASS-55-35 US-PATENT-3,300,949	N70-41629* #	c 15	NASA-CASE-XGS-02441 US-PATENT-APPL-SN-411944 US-PATENT-CLASS-285-331 US-PATENT-3,301,578	N70-41863* #	c 02	NASA-CASE-XLA-01220 US-PATENT-APPL-SN-379417 US-PATENT-CLASS-244-16 US-PATENT-3,286,957
N70-41310* #	c 15	NASA-CASE-XNP-01567 US-PATENT-APPL-SN-448898 US-PATENT-CLASS-248-178 US-PATENT-3,295,808	N70-41630* #	c 02	NASA-CASE-XMS-00907 US-PATENT-APPL-SN-428890 US-PATENT-CLASS-244-138 US-PATENT-3,301,511	N70-41864* #	c 03	NASA-CASE-XGS-01419 US-PATENT-APPL-SN-323182 US-PATENT-CLASS-136-173 US-PATENT-3,287,174
N70-41311* #	c 28	NASA-CASE-XNP-00876 US-PATENT-APPL-SN-377784 US-PATENT-CLASS-60-251 US-PATENT-3,298,182	N70-41631* #	c 31	NASA-CASE-XMS-04142 US-PATENT-APPL-SN-422865 US-PATENT-CLASS-244-1 US-PATENT-3,301,507	N70-41871* #	c 31	NASA-CASE-XMS-04390 US-PATENT-APPL-SN-502729 US-PATENT-CLASS-62-45 US-PATENT-3,304,729
N70-41329* #	c 05	NASA-CASE-XMS-01615 US-PATENT-APPL-SN-329595 US-PATENT-CLASS-128-2.05 US-PATENT-3,298,362	N70-41646* #	c 15	NASA-CASE-XLE-01449 US-PATENT-APPL-SN-330209 US-PATENT-CLASS-137-197 US-PATENT-3,295,545	N70-41897* #	c 27	NASA-CASE-XNP-01749 US-PATENT-APPL-SN-440033 US-PATENT-CLASS-149-109 US-PATENT-3,305,415
N70-41330* #	c 14	NASA-CASE-XLE-00688 US-PATENT-APPL-SN-334672 US-PATENT-CLASS-73-32 US-PATENT-3,298,221	N70-41647* #	c 14	NASA-CASE-XGS-00769 US-PATENT-APPL-SN-319893 US-PATENT-CLASS-242-55.19 US-PATENT-3,295,782	N70-41922* #	c 28	NASA-CASE-XNP-02839 US-PATENT-APPL-SN-477333 US-PATENT-CLASS-60-202 US-PATENT-3,304,718
N70-41331* #	c 07	NASA-CASE-XLA-01400 US-PATENT-APPL-SN-363653 US-PATENT-CLASS-325-65 US-PATENT-3,296,531	N70-41655* #	c 09	NASA-CASE-XMF-00906 US-PATENT-APPL-SN-264731 US-PATENT-CLASS-324-113 US-PATENT-3,287,640	N70-41929* #	c 09	NASA-CASE-XNP-01951 US-PATENT-APPL-SN-413662 US-PATENT-CLASS-335-300 US-PATENT-3,305,810
N70-41332* #	c 14	NASA-CASE-XLA-00495 US-PATENT-APPL-SN-269215 US-PATENT-CLASS-324-70 US-PATENT-3,296,526	N70-41675* #	c 09	NASA-CASE-XMS-01315 US-PATENT-APPL-SN-347101 US-PATENT-CLASS-307-88.5 US-PATENT-3,302,040	N70-41930* #	c 21	NASA-CASE-XNP-01501 US-PATENT-APPL-SN-432027 US-PATENT-CLASS-343-12 US-PATENT-3,305,861
N70-41366* #	c 14	NASA-CASE-XLA-01353 US-PATENT-APPL-SN-403960 US-PATENT-CLASS-73-147 US-PATENT-3,301,046	N70-41676* #	c 14	NASA-CASE-XGS-01231 US-PATENT-APPL-SN-346356 US-PATENT-CLASS-250-71 US-PATENT-3,302,023	N70-41946* #	c 14	NASA-CASE-XLE-00011 US-PATENT-APPL-SN-735911 US-PATENT-CLASS-88-14 US-PATENT-2,960,002
N70-41367* #	c 32	NASA-CASE-XGS-00938 US-PATENT-APPL-SN-392970 US-PATENT-CLASS-214-1 US-PATENT-3,295,699	N70-41677* #	c 11	NASA-CASE-XMF-01772 US-PATENT-APPL-SN-370135 US-PATENT-CLASS-73-116 US-PATENT-3,295,366	N70-41948* #	c 31	NASA-CASE-XMF-01899 US-PATENT-APPL-SN-428882 US-PATENT-CLASS-60-257 US-PATENT-3,304,727
N70-41370* #	c 32	NASA-CASE-XNP-01962 US-PATENT-APPL-SN-369640 US-PATENT-CLASS-92-94 US-PATENT-3,298,285	N70-41678* #	c 07	NASA-CASE-XGS-02608 US-PATENT-APPL-SN-456578 US-PATENT-CLASS-343-18 US-PATENT-3,289,205	N70-41954* #	c 03	NASA-CASE-XAC-03392 US-PATENT-APPL-SN-430776 US-PATENT-CLASS-74-519 US-PATENT-3,304,799
N70-41371* #	c 15	NASA-CASE-XMF-01452 US-PATENT-APPL-SN-356892 US-PATENT-CLASS-29-271 US-PATENT-3,300,847	N70-41679* #	c 15	NASA-CASE-XLA-01441 US-PATENT-APPL-SN-516151 US-PATENT-CLASS-102-49 US-PATENT-3,302,569	N70-41955* #	c 14	NASA-CASE-XNP-02029 US-PATENT-APPL-SN-221276 US-PATENT-CLASS-88-14 US-PATENT-3,323,408
N70-41372* #	c 07	NASA-CASE-XLA-01127 US-PATENT-APPL-SN-363654 US-PATENT-CLASS-325-65 US-PATENT-3,300,731	N70-41680* #	c 07	NASA-CASE-XNP-02723 US-PATENT-APPL-SN-371857 US-PATENT-CLASS-343-14 US-PATENT-3,287,725	N70-41957* #	c 14	NASA-CASE-XAC-01101 US-PATENT-APPL-SN-355129 US-PATENT-CLASS-73-141 US-PATENT-3,304,773
N70-41373* #	c 31	NASA-CASE-XMS-01906 US-PATENT-APPL-SN-339040 US-PATENT-CLASS-244-1 US-PATENT-3,300,162	N70-41681* #	c 14	NASA-CASE-XAC-02877 US-PATENT-APPL-SN-449902 US-PATENT-CLASS-73-30 US-PATENT-3,295,360	N70-41960* #	c 15	NASA-CASE-XNP-05082 US-PATENT-APPL-SN-521753 US-PATENT-CLASS-174-68.5 US-PATENT-3,321,570
N70-41447* #	c 28	NASA-CASE-XNP-00732 US-PATENT-APPL-SN-261918 US-PATENT-CLASS-210-314 US-PATENT-3,295,684	N70-41682* #	c 14	NASA-CASE-XMS-05936 US-PATENT-APPL-SN-557868 US-PATENT-CLASS-73-517 US-PATENT-3,295,377	N70-41961* #	c 08	NASA-CASE-XNP-00911 US-PATENT-APPL-SN-280777 US-PATENT-CLASS-178-67 US-PATENT-3,305,636
N70-41576* #	c 28	NASA-CASE-XLE-00519 US-PATENT-APPL-SN-249542 US-PATENT-CLASS-313-63 US-PATENT-3,287,582	N70-41717* #	c 09	NASA-CASE-XMS-02087 US-PATENT-APPL-SN-439489 US-PATENT-CLASS-165-1 US-PATENT-3,301,315	N70-41964* #	c 10	NASA-CASE-XGS-01983 US-PATENT-APPL-SN-388023 US-PATENT-CLASS-333-79 US-PATENT-3,305,801
N70-41578* #	c 16	NASA-CASE-XGS-01504 US-PATENT-APPL-SN-340113 US-PATENT-CLASS-331-94 US-PATENT-3,287,660	N70-41807* #	c 14	NASA-CASE-XNP-01472 US-PATENT-APPL-SN-321656 US-PATENT-CLASS-178-7.2 US-PATENT-3,287,496	N70-41967* #	c 28	NASA-CASE-XLA-02651 US-PATENT-APPL-SN-449901 US-PATENT-CLASS-102-49 US-PATENT-3,304,865
N70-41579* #	c 32	NASA-CASE-XLE-00620 US-PATENT-APPL-SN-304698 US-PATENT-CLASS-138-119	N70-41808* #	c 15	NASA-CASE-XMS-02532 US-PATENT-APPL-SN-398132 US-PATENT-CLASS-285-27	N70-41991* #	c 10	NASA-CASE-XNP-03128 US-PATENT-APPL-SN-397665 US-PATENT-CLASS-250-83.6

N70-41992* #	c 28	US-PATENT-3,321,628 NASA-CASE-XLE-00685 US-PATENT-APPL-SN-407595 US-PATENT-CLASS-60-260 US-PATENT-3,321,922	N71-10616* #	c 14	US-PATENT-3,311,315 NASA-CASE-XMF-02433 US-PATENT-APPL-SN-405630 US-PATENT-CLASS-73-70.2 US-PATENT-3,310,978	N71-10781* #	c 14	US-PATENT-3,316,716 NASA-CASE-XLE-01481 US-PATENT-APPL-SN-319905 US-PATENT-CLASS-73-99 US-PATENT-3,282,091
N70-41993* #	c 15	NASA-CASE-XLE-01300 US-PATENT-APPL-SN-380960 US-PATENT-CLASS-73-100 US-PATENT-3,323,356	N71-10617* #	c 15	NASA-CASE-XMF-01887 US-PATENT-APPL-SN-422868 US-PATENT-CLASS-308-5 US-PATENT-3,325,229	N71-10782* #	c 15	NASA-CASE-XKS-01985 US-PATENT-APPL-SN-357337 US-PATENT-CLASS-285-24 US-PATENT-3,319,979
N70-41994* #	c 14	NASA-CASE-XMF-02822 US-PATENT-APPL-SN-403959 US-PATENT-CLASS-73-194 US-PATENT-3,323,362	N71-10618* #	c 09	NASA-CASE-XNP-03332 US-PATENT-APPL-SN-368123 US-PATENT-CLASS-313-63 US-PATENT-3,311,772	N71-10797* #	c 14	NASA-CASE-XLE-01246 US-PATENT-APPL-SN-249537 US-PATENT-CLASS-324-61 US-PATENT-3,324,388
N70-42000* #	c 05	NASA-CASE-XMS-03371 US-PATENT-APPL-SN-418931 US-PATENT-CLASS-73-432 US-PATENT-3,323,370	N71-10658* #	c 15	NASA-CASE-XMS-03252 US-PATENT-APPL-SN-425362 US-PATENT-CLASS-60-54.5 US-PATENT-3,318,093	N71-10798* #	c 09	NASA-CASE-XMS-00945 US-PATENT-APPL-SN-385530 US-PATENT-CLASS-330-22 US-PATENT-3,319,175
N70-42003* #	c 32	NASA-CASE-XLA-02131 US-PATENT-APPL-SN-377777 US-PATENT-CLASS-73-90 US-PATENT-3,304,768	N71-10659* #	c 09	NASA-CASE-XNP-01383 US-PATENT-APPL-SN-369336 US-PATENT-CLASS-324-77 US-PATENT-3,317,832	N71-10799* #	c 15	NASA-CASE-XLA-01807 US-PATENT-APPL-SN-442558 US-PATENT-CLASS-287-189.36 US-PATENT-3,318,622
N70-42015* #	c 31	NASA-CASE-XLA-01967 US-PATENT-APPL-SN-457875 US-PATENT-CLASS-244-135 US-PATENT-3,321,159	N71-10672* #	c 15	NASA-CASE-XLA-01091 US-PATENT-APPL-SN-351259 US-PATENT-CLASS-264-102 US-PATENT-3,317,641	N71-10809* #	c 15	NASA-CASE-XMF-02107 US-PATENT-APPL-SN-384811 US-PATENT-CLASS-140-124 US-PATENT-3,318,343
N70-42016* #	c 02	NASA-CASE-XLA-01290 US-PATENT-APPL-SN-393451 US-PATENT-CLASS-244-42 US-PATENT-3,321,157	N71-10673* #	c 09	NASA-CASE-XGS-01473 US-PATENT-APPL-SN-364867 US-PATENT-CLASS-307-88.5 US-PATENT-3,317,751	N71-11037* #	c 02	NASA-CASE-XLA-06824-2 US-PATENT-APPL-SN-775966 US-PATENT-CLASS-244-31 US-PATENT-3,508,724
N70-42017* #	c 15	NASA-CASE-XMS-04072 US-PATENT-APPL-SN-485960 US-PATENT-CLASS-30-228 US-PATENT-3,320,669	N71-10676* #	c 07	NASA-CASE-XNP-03134 US-PATENT-APPL-SN-422095 US-PATENT-CLASS-333-21 US-PATENT-3,324,423	N71-11038* #	c 02	NASA-CASE-XLA-06958 US-PATENT-APPL-SN-551815 US-PATENT-CLASS-244-44 US-PATENT-3,310,261
N70-42032* #	c 10	NASA-CASE-XNP-02654 US-PATENT-APPL-SN-435387 US-PATENT-CLASS-307-88.5 US-PATENT-3,321,645	N71-10677* #	c 09	NASA-CASE-XGS-01451 US-PATENT-APPL-SN-405629 US-PATENT-CLASS-318-138 US-PATENT-3,324,370	N71-11039* #	c 02	NASA-CASE-MSC-12111-1 US-PATENT-APPL-SN-775877 US-PATENT-CLASS-244-23 US-PATENT-3,490,721
N70-42033* #	c 15	NASA-CASE-XNP-02092 US-PATENT-APPL-SN-371856 US-PATENT-CLASS-156-345 US-PATENT-3,323,967	N71-10678* #	c 21	NASA-CASE-XGS-01159 US-PATENT-APPL-SN-332313 US-PATENT-CLASS-250-203 US-PATENT-3,311,748	N71-11041* #	c 02	NASA-CASE-XLA-03659 US-PATENT-APPL-SN-444087 US-PATENT-CLASS-244-46 US-PATENT-3,270,989
N70-42034* #	c 15	NASA-CASE-XNP-01412 US-PATENT-APPL-SN-426702 US-PATENT-CLASS-175-310 US-PATENT-3,321,034	N71-10728* #	c 03	NASA-CASE-XNP-01464 US-PATENT-APPL-SN-430778 US-PATENT-CLASS-136-182 US-PATENT-3,317,352	N71-11043* #	c 02	NASA-CASE-XLA-08801-1 US-PATENT-APPL-SN-710533 US-PATENT-CLASS-244-43 US-PATENT-3,493,197
N70-42073* #	c 03	NASA-CASE-XFR-04104 US-PATENT-APPL-SN-476759 US-PATENT-CLASS-74-471 US-PATENT-3,323,386	N71-10746* #	c 11	NASA-CASE-XMS-02977 US-PATENT-APPL-SN-416938 US-PATENT-CLASS-35-12 US-PATENT-3,281,963	N71-11049* #	c 03	NASA-CASE-NPO-10109 US-PATENT-APPL-SN-701654 US-PATENT-CLASS-136-89 US-PATENT-3,532,551
N70-42074* #	c 14	NASA-CASE-XLE-02998 US-PATENT-APPL-SN-516794 US-PATENT-CLASS-116-117 US-PATENT-3,323,484	N71-10747* #	c 31	NASA-CASE-XMF-00442 US-PATENT-APPL-SN-202030 US-PATENT-CLASS-343-705 US-PATENT-3,277,486	N71-11050* #	c 03	NASA-CASE-XNP-06506* US-PATENT-APPL-SN-577778 US-PATENT-CLASS-136-89 US-PATENT-3,446,676
N70-42075* #	c 31	NASA-CASE-XMS-02677 US-PATENT-APPL-SN-472066 US-PATENT-CLASS-244-1 US-PATENT-3,321,154	N71-10748* #	c 11	NASA-CASE-XFR-04147 US-PATENT-APPL-SN-476761 US-PATENT-CLASS-35-12 US-PATENT-3,281,965	N71-11051* #	c 03	NASA-CASE-XNP-03378 US-PATENT-APPL-SN-360878 US-PATENT-CLASS-136-170 US-PATENT-3,282,740
N71-10500* #	c 14	NASA-CASE-XLE-01609 US-PATENT-APPL-SN-438797 US-PATENT-CLASS-73-290 US-PATENT-3,326,043	N71-10771* #	c 21	NASA-CASE-XNP-03914 US-PATENT-APPL-SN-468647 US-PATENT-CLASS-250-203 US-PATENT-3,317,731	N71-11052* #	c 03	NASA-CASE-XLE-04526 US-PATENT-APPL-SN-640457 US-PATENT-CLASS-136-86 US-PATENT-3,507,704
N71-10560* #	c 24	NASA-CASE-XLE-00808 US-PATENT-APPL-SN-307269 US-PATENT-CLASS-148-188 US-PATENT-3,310,443	N71-10772* #	c 18	NASA-CASE-XLE-01765 US-PATENT-APPL-SN-316477 US-PATENT-CLASS-117-65.2 US-PATENT-3,317,341	N71-11053* #	c 03	NASA-CASE-XGS-00886 US-PATENT-APPL-SN-319894 US-PATENT-CLASS-136-132 US-PATENT-3,282,739
N71-10574* #	c 28	NASA-CASE-XLE-01902 US-PATENT-APPL-SN-485656 US-PATENT-CLASS-60-202 US-PATENT-3,324,659	N71-10773* #	c 14	NASA-CASE-XLA-02605 US-PATENT-APPL-SN-459138 US-PATENT-CLASS-177-210 US-PATENT-3,316,991	N71-11055* #	c 03	NASA-CASE-XMF-05843 US-PATENT-APPL-SN-666553 US-PATENT-CLASS-310-4 US-PATENT-3,509,386
N71-10577* #	c 15	NASA-CASE-XLE-04677 US-PATENT-APPL-SN-447928 US-PATENT-CLASS-220-67 US-PATENT-3,326,407	N71-10774* #	c 14	NASA-CASE-XLA-01131 US-PATENT-APPL-SN-322545 US-PATENT-CLASS-73-23 US-PATENT-3,312,101	N71-11056* #	c 03	NASA-CASE-XNP-05821 US-PATENT-APPL-SN-545223 US-PATENT-CLASS-136-89 US-PATENT-3,493,437
N71-10578* #	c 10	NASA-CASE-XMS-01554 US-PATENT-APPL-SN-414482 US-PATENT-CLASS-323-9 US-PATENT-3,325,723	N71-10775* #	c 07	NASA-CASE-XLA-00901 US-PATENT-APPL-SN-269212 US-PATENT-CLASS-325-305 US-PATENT-3,311,832	N71-11057* #	c 03	NASA-CASE-MSC-13112 US-PATENT-APPL-SN-765738 US-PATENT-CLASS-290-40 US-PATENT-3,508,070
N71-10582* #	c 31	NASA-CASE-XLA-02132 US-PATENT-APPL-SN-453227 US-PATENT-CLASS-102-49 US-PATENT-3,286,630	N71-10776* #	c 11	NASA-CASE-XLA-03127 US-PATENT-APPL-SN-447927 US-PATENT-CLASS-35-12 US-PATENT-3,281,964	N71-11058* #	c 03	NASA-CASE-XGS-01475 US-PATENT-APPL-SN-344793 US-PATENT-CLASS-244-1 US-PATENT-3,459,391
N71-10604* #	c 11	NASA-CASE-XMF-03248 US-PATENT-APPL-SN-377780 US-PATENT-CLASS-73-116 US-PATENT-3,310,980	N71-10777* #	c 11	NASA-CASE-XLE-01533 US-PATENT-APPL-SN-334678 US-PATENT-CLASS-55-400 US-PATENT-3,282,035	N71-11189* #	c 05	NASA-CASE-XFR-10856 US-PATENT-APPL-SN-626376 US-PATENT-CLASS-353-727 US-PATENT-3,534,727
N71-10607* #	c 26	NASA-CASE-XLE-02792 US-PATENT-APPL-SN-352400 US-PATENT-CLASS-148-1.5 US-PATENT-3,311,510	N71-10778* #	c 15	NASA-CASE-XNP-00710 US-PATENT-APPL-SN-271821 US-PATENT-CLASS-251-61 US-PATENT-3,317,180	N71-11190* #	c 05	NASA-CASE-XMS-04935 US-PATENT-APPL-SN-518487 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10608* #	c 03	NASA-CASE-XGS-03505 US-PATENT-APPL-SN-498167 US-PATENT-CLASS-136-28 US-PATENT-3,311,502	N71-10779* #	c 14	NASA-CASE-XMF-02307 US-PATENT-APPL-SN-422869 US-PATENT-CLASS-73-40.5 US-PATENT-3,316,752	N71-11193* #	c 05	NASA-CASE-ARC-10043-1 US-PATENT-APPL-SN-676012 US-PATENT-CLASS-128-2.1 US-PATENT-3,508,541
N71-10609* #	c 07	NASA-CASE-XGS-01223 US-PATENT-APPL-SN-319892 US-PATENT-CLASS-242-55.19	N71-10780* #	c 28	NASA-CASE-XLA-01043 US-PATENT-APPL-SN-379768 US-PATENT-CLASS-60-225	N71-11194* #	c 05	NASA-CASE-XLA-05332 US-PATENT-APPL-SN-757861 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,407

N71-11195* #	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,406	N71-12258* #	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,012	N71-12506* #	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5 US-PATENT-3,535,696
N71-11199* #	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191 US-PATENT-3,262,518	N71-12259* #	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,013	N71-12507* #	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324 US-PATENT-3,537,096
N71-11202* #	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23 US-PATENT-3,507,146	N71-12260* #	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97 US-PATENT-3,238,730	N71-12513* #	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188 US-PATENT-3,490,965
N71-11203* #	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5 US-PATENT-3,500,827	N71-12335* #	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1 US-PATENT-3,286,274	N71-12514* #	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252 US-PATENT-3,491,255
N71-11207* #	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182 US-PATENT-3,444,051	N71-12336* #	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-244-4 US-PATENT-3,270,986	N71-12515* #	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174 US-PATENT-3,535,702
N71-11235* #	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78 US-PATENT-3,518,232	N71-12341* #	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385 US-PATENT-3,516,711	N71-12516* #	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243 US-PATENT-3,535,554
N71-11236* #	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5 US-PATENT-3,526,611	N71-12342* #	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143 US-PATENT-3,453,546	N71-12517* #	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80 US-PATENT-3,493,901
N71-11237* #	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5 US-PATENT-3,444,127	N71-12343* #	c 05	NASA-CASE-MS-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68 US-PATENT-3,466,085	N71-12518* #	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42 US-PATENT-3,488,461
N71-11238* #	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78 US-PATENT-3,532,673	N71-12344* #	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1 US-PATENT-3,492,672	N71-12519* #	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110 US-PATENT-3,535,644
N71-11239* #	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,970	N71-12345* #	c 05	NASA-CASE-MS-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400 US-PATENT-3,490,130	N71-12520* #	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229 US-PATENT-3,535,547
N71-11240* #	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5 US-PATENT-3,516,964	N71-12346* #	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1 US-PATENT-3,490,440	N71-12521* #	c 09	NASA-CASE-ARC-10030 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110 US-PATENT-3,493,805
N71-11242* #	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5 US-PATENT-3,493,524	N71-12351* #	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25 US-PATENT-3,493,153	N71-12526* #	c 09	NASA-CASE-MS-12135-1 US-PATENT-APPL-SN-761404 US-PATENT-CLASS-317-31 US-PATENT-3,448,341
N71-11243* #	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2 US-PATENT-3,493,522	N71-12389* #	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199 US-PATENT-RE-26,548	N71-12539* #	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7 US-PATENT-3,535,446
N71-11266* #	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42 US-PATENT-3,508,152	N71-12390* #	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9 US-PATENT-3,535,657	N71-12540* #	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160 US-PATENT-3,271,620
N71-11267* #	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363 US-PATENT-3,508,156	N71-12391* #	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7 US-PATENT-3,471,858	N71-12554* #	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95 US-PATENT-3,532,979
N71-11281* #	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5 US-PATENT-3,535,451	N71-12392* #	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88 US-PATENT-3,491,202	N71-13410* #	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35 US-PATENT-3,270,988
N71-11282* #	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104 US-PATENT-3,501,704	N71-12396* #	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776 US-PATENT-3,495,262	N71-13411* #	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6 US-PATENT-3,500,020
N71-11284* #	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65 US-PATENT-3,277,375	N71-12494* #	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296 US-PATENT-3,535,560	N71-13421* #	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22 US-PATENT-3,258,582
N71-11285* #	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779 US-PATENT-3,534,375	N71-12500* #	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31 US-PATENT-3,535,658	N71-13422* #	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76 US-PATENT-3,534,930
N71-11298* #	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198 US-PATENT-3,243,791	N71-12501* #	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347 US-PATENT-3,251,053	N71-13461* #	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9 US-PATENT-3,521,054
N71-11300* #	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6 US-PATENT-3,493,677	N71-12502* #	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5 US-PATENT-3,533,074	N71-13486* #	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149 US-PATENT-3,535,543
N71-11766* #	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5 US-PATENT-3,447,154	N71-12503* #	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37 US-PATENT-3,535,642	N71-13518* #	c 09	NASA-CASE-MS-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241 US-PATENT-3,530,336
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263 US-PATENT-CLASS-XLA-04451 US-PATENT-APPL-SN-457876	N71-12504* #	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174 US-PATENT-3,493,942	N71-13521* #	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703 US-PATENT-3,526,897
N71-12243* #	c 02	NASA-CASE-XLA-04451 US-PATENT-APPL-SN-457876 US-PATENT-CLASS-244-45 US-PATENT-3,310,262	N71-12505* #	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522* #	c 09	NASA-CASE-LEW-10364-1 US-PATENT-APPL-SN-822518
N71-12255* #	c 03	NASA-CASE-NPO-10404 US-PATENT-APPL-SN-728234						

		US-PATENT-CLASS-317-258				US-PATENT-CLASS-350-3.5				US-PATENT-CLASS-60-35.6
		US-PATENT-3,535,602				US-PATENT-3,535,013				US-PATENT-3,270,503
N71-13530* #	c 09	NASA-CASE-XNP-00384	N71-15562* #	c 25	NASA-CASE-XLA-03374	N71-15625* #	c 33	NASA-CASE-XLE-01399		
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233		
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26		
N71-13531* #	c 09	US-PATENT-3,263,171	N71-15563* #	c 28	US-PATENT-3,535,586	N71-15634* #	c 27	US-PATENT-3,263,016		
		NASA-CASE-MSC-12033-1			NASA-CASE-XLA-02885			NASA-CASE-XLE-01988		
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918		
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,526,845			US-PATENT-3,270,990			US-PATENT-3,258,912		
N71-13537* #	c 10	NASA-CASE-XNP-08274	N71-15565* #	c 16	NASA-CASE-MFS-20074	N71-15635* #	c 27	NASA-CASE-XLE-01182		
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-801312			US-PATENT-APPL-SN-411949		
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46		
		US-PATENT-3,520,190			US-PATENT-3,535,014			US-PATENT-3,258,918		
N71-13545* #	c 10	NASA-CASE-LAR-10774	N71-15566* #	c 31	NASA-CASE-XKS-08012-2	N71-15637* #	c 31	NASA-CASE-XLE-01640		
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535		
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,534,584			US-PATENT-3,535,683			US-PATENT-3,270,504		
N71-13789* #	c 15	NASA-CASE-XLA-01141	N71-15567* #	c 16	NASA-CASE-ERC-10017	N71-15641* #	c 33	NASA-CASE-XNP-09802		
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229		
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190		
		US-PATENT-3,263,610			US-PATENT-3,535,012			US-PATENT-3,531,989		
N71-13958* #	c 21	NASA-CASE-GSC-10087-2	N71-15568* #	c 33	NASA-CASE-XLE-09475-1	N71-15642* #	c 21	NASA-CASE-XGS-03431		
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635		
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203		
		US-PATENT-3,495,260			US-PATENT-3,535,165			US-PATENT-3,488,504		
N71-14014* #	c 18	NASA-CASE-GSC-10072	N71-15571* #	c 15	NASA-CASE-XLA-07911	N71-15643* #	c 31	NASA-CASE-NPO-10311		
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116		
		US-PATENT-3,493,401			US-PATENT-3,492,739			US-PATENT-3,534,597		
N71-14032* #	c 33	NASA-CASE-XLE-05913	N71-15582* #	c 21	NASA-CASE-XLA-01163	N71-15644* #	c 17	NASA-CASE-XLE-00726		
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126		
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170		
		US-PATENT-3,490,939			US-PATENT-3,270,505			US-PATENT-3,271,140		
N71-14035* #	c 33	NASA-CASE-XLE-03307	N71-15583* #	c 21	NASA-CASE-XMF-01598	N71-15647* #	c 31	NASA-CASE-XGS-01143		
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-349781		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,490,718			US-PATENT-3,270,985			US-PATENT-3,270,501		
N71-14043* #	c 28	NASA-CASE-XLE-01124	N71-15597* #	c 15	NASA-CASE-XLE-08917	N71-15658* #	c 28	NASA-CASE-XLE-00409		
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249538		
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157		
		US-PATENT-3,238,715			US-PATENT-3,490,405			US-PATENT-3,254,395		
N71-14044* #	c 28	NASA-CASE-XGS-08729	N71-15598* #	c 14	NASA-CASE-XAC-00812	N71-15659* #	c 28	NASA-CASE-XLE-05689		
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845		
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.60		
		US-PATENT-3,490,235			US-PATENT-3,238,777			US-PATENT-3,254,487		
N71-14058* #	c 28	NASA-CASE-MSC-12139-1	N71-15599* #	c 14	NASA-CASE-XNP-04161	N71-15660* #	c 28	NASA-CASE-XMF-00968		
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825		
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,492,947			US-PATENT-3,444,375			US-PATENT-3,270,499		
N71-14090* #	c 27	NASA-CASE-LAR-10173-1	N71-15600* #	c 14	NASA-CASE-XKS-06250	N71-15661* #	c 28	NASA-CASE-XLE-02066		
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455		
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5		
		US-PATENT-3,492,176			US-PATENT-3,492,862			US-PATENT-3,262,262		
N71-14132* #	c 21	NASA-CASE-XLA-05464	N71-15604* #	c 14	NASA-CASE-NPO-10337	N71-15663* #	c 31	NASA-CASE-XLA-00256		
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,194			US-PATENT-3,488,103			US-PATENT-3,262,655		
N71-14159* #	c 21	NASA-CASE-XGS-04393	N71-15605* #	c 14	NASA-CASE-GSC-10062	N71-15664* #	c 31	NASA-CASE-XLA-01332		
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15		
		US-PATENT-3,490,719			US-PATENT-3,493,294			US-PATENT-3,270,908		
N71-14354* #	c 26	NASA-CASE-ERC-10138	N71-15606* #	c 15	NASA-CASE-XNP-06031	N71-15673* #	c 23	NASA-CASE-XMS-01620		
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340		
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358		
		US-PATENT-3,493,155			US-PATENT-3,493,746			US-PATENT-3,243,154		
N71-14932* #	c 15	NASA-CASE-LEW-11531	N71-15607* #	c 15	NASA-CASE-XMF-03287	N71-15674* #	c 31	NASA-CASE-XLA-03691		
		US-PATENT-APPL-SN-643332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625		
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,711			US-PATENT-3,443,732			US-PATENT-3,534,924		
N71-14996* #	c 14	NASA-CASE-XLA-00936	N71-15608* #	c 15	NASA-CASE-NPO-10117	N71-15675* #	c 31	NASA-CASE-XMF-03169		
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405		
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-89-1.5		
		US-PATENT-3,238,774			US-PATENT-3,493,012			US-PATENT-3,262,365		
N71-15467* #	c 23	NASA-CASE-XNP-03796	N71-15609* #	c 15	NASA-CASE-XMF-04709	N71-15676* #	c 31	NASA-CASE-XGS-05579		
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869		
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1		
		US-PATENT-3,260,055			US-PATENT-3,493,003			US-PATENT-3,534,925		
N71-15468* #	c 17	NASA-CASE-LEW-10393-1	N71-15610* #	c 15	NASA-CASE-XLE-01604-2	N71-15687* #	c 31	NASA-CASE-XLA-05369		
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123		
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5		
		US-PATENT-3,535,110			US-PATENT-3,493,415			US-PATENT-3,534,686		
N71-15469* #	c 18	NASA-CASE-ARC-10099-1	N71-15620* #	c 14	NASA-CASE-XLA-01926	N71-15688* #	c 18	NASA-CASE-XNP-03459-2		
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5		
		US-PATENT-3,535,130			US-PATENT-3,491,335			US-PATENT-3,535,352		
N71-15545* #	c 18	NASA-CASE-XMS-09691-1	N71-15621* #	c 14	NASA-CASE-XNP-09572	N71-15689* #	c 31	NASA-CASE-MFS-14685		
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947		
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118		
		US-PATENT-3,526,473			US-PATENT-3,493,665			US-PATENT-CLASS-180-121		
N71-15550* #	c 16	NASA-CASE-XNP-05219	N71-15622* #	c 14	NASA-CASE-XNP-04111			US-PATENT-3,534,826		
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969			NASA-CASE-XLA-01339		
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-APPL-SN-373591		
		US-PATENT-3,299,364			US-PATENT-3,493,291			US-PATENT-CLASS-102-49		
N71-15551* #	c 16	NASA-CASE-ERC-10019	N71-15623* #	c 33	NASA-CASE-XMS-01816			US-PATENT-3,260,204		
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364	N71-15871* #	c 15	NASA-CASE-XMF-02039		

		US-PATENT-APPL-SN-434143			US-PATENT-APPL-SN-304749			US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
		US-PATENT-3,271,558			US-PATENT-3,270,441			US-PATENT-3,532,880
N71-15906*	c 15	NASA-CASE-XNP-00920	N71-16030*	c 10	NASA-CASE-XMF-01096	N71-16098*	c 23	NASA-CASE-XAC-03107
		US-PATENT-APPL-SN-329331			US-PATENT-APPL-SN-307270			US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
		US-PATENT-3,270,512			US-PATENT-3,271,649			US-PATENT-3,455,171
N71-15907*	c 07	NASA-CASE-XNP-01057	N71-16031*	c 12	NASA-CASE-XMS-01445	N71-16099*	c 23	NASA-CASE-XGS-07514
		US-PATENT-APPL-SN-301683			US-PATENT-APPL-SN-385526			US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
		US-PATENT-3,305,870			US-PATENT-3,308,848			US-PATENT-3,509,469
N71-15908*	c 08	NASA-CASE-XLA-02705	N71-16037*	c 26	NASA-CASE-XGS-05718	N71-16100*	c 23	NASA-CASE-XGS-05715
		US-PATENT-APPL-SN-473537			US-PATENT-APPL-SN-584071			US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
		US-PATENT-3,310,054			US-PATENT-3,452,423			US-PATENT-3,532,894
N71-15909*	c 10	NASA-CASE-XAC-03777	N71-16042*	c 10	NASA-CASE-XAC-00942	N71-16101*	c 23	NASA-CASE-XNP-08883
		US-PATENT-APPL-SN-484489			US-PATENT-APPL-SN-310506			US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
		US-PATENT-3,283,088			US-PATENT-3,277,314			US-PATENT-3,520,617
N71-15910*	c 10	NASA-CASE-XGS-00823	N71-16044*	c 17	NASA-CASE-XGS-06306	N71-16102*	c 31	NASA-CASE-XGS-09190
		US-PATENT-APPL-SN-336607			US-PATENT-APPL-SN-685473			US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
		US-PATENT-3,283,175			US-PATENT-3,532,568			US-PATENT-3,521,290
N71-15918*	c 15	NASA-CASE-XMS-02383	N71-16046*	c 18	NASA-CASE-GSC-10007	N71-16103*	c 32	NASA-CASE-LAR-10317.1
		US-PATENT-APPL-SN-299042			US-PATENT-APPL-SN-627599			US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
		US-PATENT-3,299,913			US-PATENT-3,532,538			US-PATENT-3,508,578
N71-15922*	c 15	NASA-CASE-XGS-01971	N71-16052*	c 15	NASA-CASE-XLE-02999	N71-16104*	c 33	NASA-CASE-XLE-00785
		US-PATENT-APPL-SN-353645			US-PATENT-APPL-SN-431235			US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
		US-PATENT-3,262,351			US-PATENT-3,262,186			US-PATENT-3,508,402
N71-15925*	c 11	NASA-CASE-XLA-00378	N71-16057*	c 10	NASA-CASE-XNP-01193	N71-16105*	c 18	NASA-CASE-XLE-08511.2
		US-PATENT-APPL-SN-266107			US-PATENT-APPL-SN-366226			US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
		US-PATENT-3,238,345			US-PATENT-3,277,366			US-PATENT-3,508,955
N71-15926*	c 11	NASA-CASE-XLA-00939	N71-16058*	c 10	NASA-CASE-XMF-01097	N71-16106*	c 32	NASA-CASE-XLA-04605
		US-PATENT-APPL-SN-309354			US-PATENT-APPL-SN-290873			US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
		US-PATENT-3,276,251			US-PATENT-3,277,458			US-PATENT-3,443,584
N71-15960*	c 11	NASA-CASE-XAC-00731	N71-16073*	c 25	NASA-CASE-XAC-05695	N71-16124*	c 18	NASA-CASE-XMF-05279
		US-PATENT-APPL-SN-232318			US-PATENT-APPL-SN-634038			US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
		US-PATENT-3,145,874			US-PATENT-3,517,302			US-PATENT-3,508,940
N71-15962*	c 14	NASA-CASE-XGS-01587	N71-16075*	c 15	NASA-CASE-XLA-00284	N71-16210*	c 18	NASA-CASE-XNP-08837
		US-PATENT-APPL-SN-298799			US-PATENT-APPL-SN-240760			US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
N71-15966*	c 15	NASA-CASE-XLE-00953	N71-16076*	c 15	NASA-CASE-XLE-00106	N71-16212*	c 23	NASA-CASE-NFO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
N71-15967*	c 15	NASA-CASE-XLE-00703	N71-16077*	c 15	NASA-CASE-XLA-00302	N71-16213*	c 24	NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665680
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
N71-15968*	c 15	NASA-CASE-XLE-00586	N71-16078*	c 15	NASA-CASE-XGS-00824	N71-16221*	c 31	NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
N71-15969*	c 14	NASA-CASE-XMF-01099	N71-16079*	c 15	NASA-CASE-XLA-00415	N71-16222*	c 31	NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
N71-15974*	c 32	NASA-CASE-XMS-06782	N71-16080*	c 31	NASA-CASE-MSC-12049	N71-16223*	c 27	NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
N71-15978*	c 23	NASA-CASE-XGS-00373	N71-16081*	c 31	NASA-CASE-XGS-03351	N71-16224*	c 28	NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
N71-15986*	c 15	NASA-CASE-XMF-03498	N71-16085*	c 31	NASA-CASE-XLA-09881	N71-16277*	c 33	NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
N71-15990*	c 30	NASA-CASE-XAC-08494	N71-16086*	c 09	NASA-CASE-XLE-02038	N71-16278*	c 33	NASA-CASE-XMF-04237
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
N71-15992*	c 14	NASA-CASE-XGS-01052	N71-16087*	c 02	NASA-CASE-XAC-02058	N71-16281*	c 20	NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
N71-16014*	c 14	NASA-CASE-XLE-00820	N71-16088*	c 07	NASA-CASE-XGS-01022	N71-16340*	c 20	NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
N71-16025* #	c 17	NASA-CASE-XLE-02991	N71-16089*	c 09	NASA-CASE-XAC-02405	N71-16341*	c 23	NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
N71-16026*	c 17	NASA-CASE-XLE-02082	N71-16090*	c 30	NASA-CASE-GSC-10083-1	N71-16345*	c 31	NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
N71-16028*	c 11	NASA-CASE-XLA-01787	N71-16095*	c 24	NASA-CASE-XAC-05506-1	N71-16346*	c 31	NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816			US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-3,526,372			US-PATENT-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1			US-PATENT-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-APPL-SN-717052	N71-17686*	c 15	NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-688868
		US-PATENT-3,501,632			US-PATENT-3,491,857			US-PATENT-CLASS-29-428
N71-16355*	c 23	NASA-CASE-XGS-05534	N71-17627*	c 14	NASA-CASE-XGS-03532	N71-17687*	c 15	US-PATENT-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-APPL-SN-538913			NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-356-106			US-PATENT-APPL-SN-628246
		US-PATENT-3,520,660			US-PATENT-3,488,123			US-PATENT-CLASS-156-510
N71-16356*	c 33	NASA-CASE-NPO-10158	N71-17628*	c 15	NASA-CASE-MFS-10340	N71-17688*	c 15	US-PATENT-3,508,999
		US-PATENT-APPL-SN-730702			US-PATENT-APPL-SN-716734			NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-225-1			US-PATENT-APPL-SN-686344
		US-PATENT-3,526,134			US-PATENT-3,507,425			US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17629*	c 31	NASA-CASE-XLE-03583			US-PATENT-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-400617	N71-17691*	c 31	NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-244-3.22			US-PATENT-APPL-SN-393461
		US-PATENT-3,526,359			US-PATENT-3,276,376			US-PATENT-CLASS-244-3.14
N71-16365*	c 23	NASA-CASE-XNP-08840	N71-17631*	c 12	NASA-CASE-NPO-10122			US-PATENT-3,310,258
		US-PATENT-APPL-SN-649360			US-PATENT-APPL-SN-710949	N71-17692*	c 15	NASA-CASE-MFS-14772
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-60-217			US-PATENT-APPL-SN-774151
		US-PATENT-3,526,460			US-PATENT-3,534,555			US-PATENT-CLASS-74-63
N71-16392*	c 27	NASA-CASE-XNP-09744	N71-17645*	c 32	NASA-CASE-XNP-01153	N71-17693*	c 15	US-PATENT-3,529,480
		US-PATENT-APPL-SN-685750			US-PATENT-APPL-SN-336608			NASA-CASE-NPO-10064
		US-PATENT-CLASS-60-39.47			US-PATENT-CLASS-73-88			US-PATENT-APPL-SN-688755
		US-PATENT-3,507,114			US-PATENT-3,273,381			US-PATENT-CLASS-244-1
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17647*	c 15	NASA-CASE-XMF-01667			US-PATENT-3,501,112
		US-PATENT-APPL-SN-763869			US-PATENT-APPL-SN-577115	N71-17694*	c 15	NASA-CASE-XNP-08897
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-118-11			US-PATENT-APPL-SN-640450
		US-PATENT-3,529,928			US-PATENT-3,502,051			US-PATENT-CLASS-318-22
N71-16428*	c 32	NASA-CASE-XLA-03135	N71-17648*	c 15	NASA-CASE-MSC-12116-1			US-PATENT-3,501,683
		US-PATENT-APPL-SN-582171			US-PATENT-APPL-SN-768336	N71-17696*	c 15	NASA-CASE-XLA-05100
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-251-358			US-PATENT-APPL-SN-724551
		US-PATENT-3,503,251			US-PATENT-3,508,739			US-PATENT-CLASS-73-103
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17649*	c 15	NASA-CASE-MFS-11132			US-PATENT-3,487,680
		US-PATENT-APPL-SN-435756			US-PATENT-APPL-SN-744910	N71-17701*	c 14	NASA-CASE-NPO-10144
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-248-360			US-PATENT-APPL-SN-688805
		US-PATENT-3,310,138			US-PATENT-3,526,382			US-PATENT-CLASS-73-29
N71-17569*	c 12	NASA-CASE-MSC-12084-1	N71-17650*	c 15	NASA-CASE-XMF-05114			US-PATENT-3,534,585
		US-PATENT-APPL-SN-762438			US-PATENT-APPL-SN-637882	N71-17705*	c 06	NASA-CASE-XGS-05532
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-29-517			US-PATENT-APPL-SN-570093
		US-PATENT-3,500,686			US-PATENT-3,507,034			US-PATENT-CLASS-195-99
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17651*	c 15	NASA-CASE-XLE-03803-2			US-PATENT-3,423,290
		US-PATENT-APPL-SN-738314			US-PATENT-APPL-SN-669336	N71-17729*	c 31	NASA-CASE-XAC-01591
		US-PATENT-CLASS-73-45.5			US-PATENT-CLASS-156-172			US-PATENT-APPL-SN-385527
		US-PATENT-3,516,284			US-PATENT-3,535,179			US-PATENT-CLASS-244-1
N71-17574*	c 14	NASA-CASE-XGS-04993	N71-17652*	c 15	NASA-CASE-XLE-05079			US-PATENT-3,282,532
		US-PATENT-APPL-SN-577775			US-PATENT-APPL-SN-601228	N71-17730*	c 31	NASA-CASE-XMF-01543
		US-PATENT-CLASS-96-49			US-PATENT-CLASS-310-93			US-PATENT-APPL-SN-402365
		US-PATENT-3,458,313			US-PATENT-3,493,797			US-PATENT-CLASS-102-49
N71-17575*	c 14	NASA-CASE-XMF-06531	N71-17653*	c 15	NASA-CASE-ARC-10140-1			US-PATENT-3,286,629
		US-PATENT-APPL-SN-732917			US-PATENT-APPL-SN-783379	N71-17788*	c 30	NASA-CASE-XGS-00783
		US-PATENT-CLASS-204-195			US-PATENT-CLASS-24-211			US-PATENT-APPL-SN-372438
		US-PATENT-3,509,034			US-PATENT-CLASS-85-3			US-PATENT-CLASS-73-432
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-3,534,650	N71-17802*	c 23	US-PATENT-3,286,531
		US-PATENT-APPL-SN-701635	N71-17654*	c 15	NASA-CASE-XNP-09702			NASA-CASE-XLE-00454
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-730734			US-PATENT-APPL-SN-295855
		US-PATENT-3,520,317			US-PATENT-CLASS-239-416			US-PATENT-CLASS-73-295
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-3,534,909			US-PATENT-3,273,392
		US-PATENT-APPL-SN-726898	N71-17655*	c 14	NASA-CASE-NPO-10320	N71-17803*	c 15	NASA-CASE-XMS-05516
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-718689			US-PATENT-APPL-SN-563648
		US-PATENT-3,493,004			US-PATENT-CLASS-356-106			US-PATENT-CLASS-264-92
N71-17584*	c 14	NASA-CASE-XNP-09462			US-PATENT-3,535,041			US-PATENT-3,488,414
		US-PATENT-APPL-SN-658957	N71-17656*	c 14	NASA-CASE-MFS-12827	N71-17805*	c 15	NASA-CASE-MFS-12805
		US-PATENT-CLASS-73-57			US-PATENT-APPL-SN-742816			US-PATENT-APPL-SN-758082
		US-PATENT-3,500,677			US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-192-43.1
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-3,534,592			US-PATENT-CLASS-81-63.1
		US-PATENT-APPL-SN-656953	N71-17657*	c 14	NASA-CASE-XNP-09205			US-PATENT-3,534,836
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-768473	N71-17818*	c 26	NASA-CASE-XMF-01016
		US-PATENT-3,501,664			US-PATENT-CLASS-33-149			US-PATENT-APPL-SN-326299
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-3,534,479			US-PATENT-CLASS-264-27
		US-PATENT-APPL-SN-677476	N71-17658*	c 14	NASA-CASE-XMF-04966			US-PATENT-3,274,304
		US-PATENT-CLASS-73-105			US-PATENT-APPL-SN-727480	N71-17822*	c 15	NASA-CASE-ARC-10009-1
		US-PATENT-3,534,596			US-PATENT-CLASS-33-174			US-PATENT-APPL-SN-714595
N71-17587*	c 14	NASA-CASE-XMF-05844			US-PATENT-3,534,480			US-PATENT-CLASS-324-58.5
		US-PATENT-APPL-SN-706564	N71-17659*	c 14	NASA-CASE-XMF-02964			US-PATENT-3,532,973
		US-PATENT-CLASS-73-382			US-PATENT-APPL-SN-493942	N71-17897*	c 33	NASA-CASE-XLA-00892
		US-PATENT-3,500,688			US-PATENT-CLASS-73-15.4			US-PATENT-APPL-SN-245941
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-3,465,569			US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-686933	N71-17661*	c 12	NASA-CASE-NPO-10298			US-PATENT-3,273,355
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-745852	N71-18064*	c 26	NASA-CASE-XNP-01328
		US-PATENT-3,490,205			US-PATENT-CLASS-137-341			US-PATENT-APPL-SN-296879
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-3,534,765			US-PATENT-CLASS-317-234
		US-PATENT-APPL-SN-856258	N71-17662*	c 14	NASA-CASE-NPO-10300			US-PATENT-3,271,637
		US-PATENT-CLASS-128-142.5			US-PATENT-APPL-SN-718769	N71-18132*	c 15	NASA-CASE-MFS-13686
		US-PATENT-3,516,404			US-PATENT-CLASS-350-285			US-PATENT-APPL-SN-716183
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-3,535,024			US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-694340	N71-17679*	c 31	NASA-CASE-XNP-02507			US-PATENT-3,531,982
		US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-475299	N71-18465*	c 14	NASA-CASE-NPO-10174
		US-PATENT-3,469,734			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-690163
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-3,310,256			US-PATENT-CLASS-95-11
		US-PATENT-APPL-SN-388024	N71-17680*	c 31	NASA-CASE-XLA-00117			US-PATENT-3,520,238
		US-PATENT-CLASS-212-11			US-PATENT-APPL-SN-835153	N71-18481*	c 14	NASA-CASE-XLA-02758
		US-PATENT-3,276,602			US-PATENT-CLASS-220-1			US-PATENT-APPL-SN-759665
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-2,996,212			US-PATENT-CLASS-73-4

N71-18482*	c 14	US-PATENT-3,531,978	N71-18699*	c 14	US-PATENT-3,507,706	N71-19433*	c 07	US-PATENT-3,517,318
		NASA-CASE-XLA-07424			NASA-CASE-XLA-03273			NASA-CASE-MFS-13046
N71-18483*	c 14	US-PATENT-APPL-SN-635326	N71-18701*	c 15	US-PATENT-APPL-SN-487352	N71-19435*	c 08	US-PATENT-APPL-SN-673228
		US-PATENT-CLASS-313-7			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-178-6
N71-18578*	c 11	US-PATENT-3,466,484	N71-18720*	c 09	US-PATENT-3,458,702	N71-19436*	c 07	US-PATENT-3,532,807
		NASA-CASE-XER-09519			NASA-CASE-XMF-07587			NASA-CASE-XGS-02612
N71-18579*	c 15	US-PATENT-APPL-SN-676375	N71-18721*	c 09	US-PATENT-APPL-SN-649359	N71-19437*	c 08	US-PATENT-APPL-SN-502743
		US-PATENT-CLASS-55-208			US-PATENT-CLASS-317-122			US-PATENT-CLASS-340-347
N71-18580*	c 15	US-PATENT-3,469,375	N71-18722*	c 10	US-PATENT-3,448,346	N71-19438*	c 03	US-PATENT-3,509,558
		NASA-CASE-XAC-05902			NASA-CASE-MSC-12101			NASA-CASE-XMF-09422
N71-18594*	c 08	US-PATENT-APPL-SN-662828	N71-18723*	c 10	US-PATENT-APPL-SN-763705	N71-19439*	c 05	US-PATENT-APPL-SN-783378
		US-PATENT-CLASS-89-8			US-PATENT-CLASS-343-718			US-PATENT-CLASS-174-35
N71-18595*	c 08	US-PATENT-3,465,638	N71-18724*	c 10	US-PATENT-3,509,570	N71-19440*	c 05	US-PATENT-3,517,109
		NASA-CASE-XGS-04175			NASA-CASE-XER-07894			NASA-CASE-XGS-04768
N71-18598*	c 09	US-PATENT-APPL-SN-606464	N71-18751* #	c 08	US-PATENT-APPL-SN-644444	N71-19449*	c 09	US-PATENT-APPL-SN-598119
		US-PATENT-CLASS-72-364			US-PATENT-CLASS-331-107			US-PATENT-CLASS-235-158
N71-18600*	c 09	US-PATENT-3,465,567	N71-18752*	c 08	US-PATENT-3,509,491	N71-19466*	c 09	US-PATENT-3,508,039
		NASA-CASE-XNP-09698			NASA-CASE-ERC-10046			NASA-CASE-XGS-05432
N71-18602*	c 08	US-PATENT-APPL-SN-698592	N71-18772*	c 10	US-PATENT-APPL-SN-793772	N71-19467*	c 10	US-PATENT-APPL-SN-549860
		US-PATENT-CLASS-138-4			US-PATENT-CLASS-343-100			US-PATENT-CLASS-320-23
N71-18603*	c 12	US-PATENT-CLASS-138-45	N71-18773*	c 11	US-PATENT-3,501,764	N71-19468*	c 10	US-PATENT-3,426,263
		US-PATENT-CLASS-251-118			NASA-CASE-XNP-09450			NASA-CASE-XMS-09571
N71-18611*	c 31	US-PATENT-CLASS-251-121	N71-18830*	c 09	US-PATENT-APPL-SN-640459	N71-19469*	c 10	US-PATENT-APPL-SN-678700
		US-PATENT-3,532,128			US-PATENT-CLASS-307-273			US-PATENT-CLASS-165-46
N71-18613* #	c 15	NASA-CASE-XAC-04031	N71-18843*	c 09	US-PATENT-3,501,649	N71-19470*	c 09	US-PATENT-3,425,487
		US-PATENT-APPL-SN-538905			NASA-CASE-XLA-09371			NASA-CASE-XMS-01177
N71-18614* #	c 16	US-PATENT-CLASS-340-347	N71-19212*	c 21	US-PATENT-APPL-SN-568160	N71-19471*	c 10	US-PATENT-APPL-SN-516150
		US-PATENT-3,533,098			US-PATENT-CLASS-318-257			US-PATENT-CLASS-250-83
N71-18616*	c 15	NASA-CASE-XGS-03303	N71-19213*	c 15	US-PATENT-3,504,258	N71-19472*	c 10	US-PATENT-3,427,454
		US-PATENT-APPL-SN-520838			NASA-CASE-XLA-07732			NASA-CASE-XFR-03107
N71-18618*	c 16	US-PATENT-CLASS-340-174	N71-19214*	c 15	US-PATENT-APPL-SN-641441	N71-19479*	c 09	US-PATENT-APPL-SN-507257
		US-PATENT-3,501,752			US-PATENT-CLASS-307-216			US-PATENT-CLASS-178-6
N71-18619*	c 16	NASA-CASE-NPO-10066	N71-19417*	c 10	US-PATENT-3,512,009	N71-19480*	c 09	US-PATENT-3,458,651
		US-PATENT-APPL-SN-681693			NASA-CASE-XMF-00663			NASA-CASE-XGS-02812
N71-18625*	c 14	US-PATENT-CLASS-343-13	N71-19418*	c 10	US-PATENT-APPL-SN-205470	N71-19485*	c 15	US-PATENT-APPL-SN-502750
		US-PATENT-3,447,155			US-PATENT-CLASS-321-5			US-PATENT-CLASS-330-30
N71-18629*	c 08	NASA-CASE-LAR-10372	N71-19420*	c 08	US-PATENT-3,521,143	N71-19486*	c 15	US-PATENT-3,466,560
		US-PATENT-APPL-SN-730162			NASA-CASE-GSC-10366-1			NASA-CASE-XMF-08665
N71-18633*	c 08	US-PATENT-CLASS-102-70.2	N71-19421*	c 10	US-PATENT-APPL-SN-771523	N71-19489*	c 15	US-PATENT-APPL-SN-582609
		US-PATENT-3,500,747			US-PATENT-CLASS-318-138			US-PATENT-CLASS-325-63
N71-18639*	c 08	NASA-CASE-MSC-12168-1	N71-19431*	c 14	US-PATENT-3,532,948	N71-19516*	c 09	US-PATENT-3,470,475
		US-PATENT-APPL-SN-640154			NASA-CASE-XMF-07488			NASA-CASE-XMS-05605-1
N71-18692*	c 08	US-PATENT-CLASS-312-296	N71-19432*	c 08	US-PATENT-APPL-SN-707495	N71-19544*	c 08	US-PATENT-APPL-SN-764812
		US-PATENT-3,447,850			US-PATENT-CLASS-35-12			US-PATENT-CLASS-178-69.5
N71-18693*	c 08	NASA-CASE-XGS-04766			US-PATENT-3,534,485			US-PATENT-3,532,819
		US-PATENT-APPL-SN-598120			NASA-CASE-XAC-10768			NASA-CASE-XNP-00777
N71-18694*	c 08	US-PATENT-CLASS-235-175			US-PATENT-APPL-SN-711970			US-PATENT-APPL-SN-486573
		US-PATENT-3,532,866			US-PATENT-CLASS-250-83			US-PATENT-CLASS-329-122
N71-18698*	c 03	NASA-CASE-ERC-10031			US-PATENT-3,508,053			US-PATENT-3,517,268
		US-PATENT-APPL-SN-741461			NASA-CASE-XNP-03263			NASA-CASE-XGS-05289
		US-PATENT-CLASS-40-28			US-PATENT-APPL-SN-506908			US-PATENT-APPL-SN-632104
		US-PATENT-3,516,185			US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-331-113
		NASA-CASE-MFS-20400			US-PATENT-3,501,743			US-PATENT-3,470,496
		US-PATENT-APPL-SN-551694			NASA-CASE-MFS-20386			NASA-CASE-XLE-03804
		US-PATENT-CLASS-152-11			US-PATENT-APPL-SN-818349			US-PATENT-APPL-SN-526631
		US-PATENT-3,493,027			US-PATENT-CLASS-356-28			US-PATENT-CLASS-307-235
		NASA-CASE-XNP-02588			US-PATENT-3,532,427			US-PATENT-3,463,939
		US-PATENT-APPL-SN-563644			NASA-CASE-MFS-14259			NASA-CASE-XAC-04030
		US-PATENT-CLASS-219-91			US-PATENT-APPL-SN-787410			US-PATENT-APPL-SN-520839
		US-PATENT-3,466,418			US-PATENT-CLASS-138-43			US-PATENT-CLASS-328-1
		NASA-CASE-XGS-03644			US-PATENT-3,536,103			US-PATENT-3,464,016
		US-PATENT-APPL-SN-505320			NASA-CASE-MFS-20410			NASA-CASE-XMS-04300
		US-PATENT-CLASS-331-94.5			US-PATENT-APPL-SN-819599			US-PATENT-APPL-SN-516158
		US-PATENT-3,517,328			US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-275
		NASA-CASE-XNP-09704			US-PATENT-3,534,926			US-PATENT-3,427,093
		US-PATENT-APPL-SN-730701			NASA-CASE-GSC-10087-1			NASA-CASE-XFR-05637
		US-PATENT-CLASS-137-594			US-PATENT-APPL-SN-701679			US-PATENT-APPL-SN-484855
		US-PATENT-CLASS-138-46			US-PATENT-CLASS-343-112			US-PATENT-CLASS-235-194
		US-PATENT-CLASS-251-127			US-PATENT-3,534,367			US-PATENT-3,423,579
		US-PATENT-CLASS-251-333			NASA-CASE-NPO-10068			NASA-CASE-MSC-11010
		US-PATENT-CLASS-251-342			US-PATENT-APPL-SN-668969			US-PATENT-APPL-SN-605090
		US-PATENT-CLASS-251-61.1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-251-31
		US-PATENT-3,532,118			US-PATENT-3,501,750			US-PATENT-3,447,774
		NASA-CASE-XLA-07390			NASA-CASE-XMS-10984-1			NASA-CASE-XMF-08522
		US-PATENT-APPL-SN-665681			US-PATENT-APPL-SN-605095			US-PATENT-APPL-SN-640447
		US-PATENT-CLASS-72-53			US-PATENT-CLASS-340-213.1			US-PATENT-CLASS-219-121
		US-PATENT-3,531,964			US-PATENT-3,533,093			US-PATENT-3,474,220
		NASA-CASE-NPO-10175			NASA-CASE-GSC-10041-1			NASA-CASE-XMF-04680
		US-PATENT-APPL-SN-685787			US-PATENT-APPL-SN-684209			US-PATENT-APPL-SN-634040
		US-PATENT-CLASS-137-505.12			US-PATENT-CLASS-331-113			US-PATENT-CLASS-33-147
		US-PATENT-3,443,583			US-PATENT-3,458,833			US-PATENT-3,425,131
		NASA-CASE-MFS-14322			NASA-CASE-XNP-09453			NASA-CASE-XKS-08485
		US-PATENT-APPL-SN-646934			US-PATENT-APPL-SN-640448			US-PATENT-APPL-SN-649078
		US-PATENT-CLASS-328-134			US-PATENT-CLASS-226-190			US-PATENT-CLASS-343-873
		US-PATENT-3,501,701			US-PATENT-3,507,436			US-PATENT-3,509,578
		NASA-CASE-XGS-04765			NASA-CASE-XLA-08493			NASA-CASE-MFS-10555
		US-PATENT-APPL-SN-577545			US-PATENT-APPL-SN-749148			US-PATENT-APPL-SN-700984
		US-PATENT-CLASS-235-156			US-PATENT-CLASS-324-72			US-PATENT-CLASS-35-12
		US-PATENT-3,508,036			US-PATENT-3,532,975			US-PATENT-3,516,179
		NASA-CASE-NPO-10201			NASA-CASE-XGS-02439			NASA-CASE-XNP-06937
		US-PATENT-APPL-SN-691738			US-PATENT-APPL-SN-487341			US-PATENT-APPL-SN-640449
		US-PATENT-CLASS-340-174			US-PATENT-CLASS-324-120			US-PATENT-CLASS-330-30
		US-PATENT-3,509,551			US-PATENT-3,422,352			US-PATENT-3,501,712
		NASA-CASE-NPO-10373			NASA-CASE-XGS-02440			NASA-CASE-XGS-01230
		US-PATENT-APPL-SN-718752			US-PATENT-APPL-SN-655677			US-PATENT-APPL-SN-356488
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-328-42			US-PATENT-CLASS-340-347

N71-19545*	c 03	US-PATENT-3,474,441 NASA-CASE-NPO-10821 US-PATENT-APPL-SN-670814 US-PATENT-CLASS-136-89 US-PATENT-3,466,198	N71-20439*	c 14	US-PATENT-3,461,721 NASA-CASE-XAC-04886-1 US-PATENT-APPL-SN-574290 US-PATENT-CLASS-73-142 US-PATENT-3,425,272	N71-20742*	c 18	US-PATENT-3,360,980 NASA-CASE-XMS-02952 US-PATENT-APPL-SN-519160 US-PATENT-CLASS-55-158 US-PATENT-3,355,861
N71-19547*	c 10	NASA-CASE-XGS-03058 US-PATENT-APPL-SN-568987 US-PATENT-CLASS-307-289 US-PATENT-3,517,221	N71-20440*	c 15	NASA-CASE-XNP-09770 US-PATENT-APPL-SN-700120 US-PATENT-CLASS-209-10 US-PATENT-3,472,372	N71-20743*	c 17	NASA-CASE-XMF-02786 US-PATENT-APPL-SN-466873 US-PATENT-CLASS-75-142 US-PATENT-3,347,665
N71-19568*	c 14	NASA-CASE-MSC-10966 US-PATENT-APPL-SN-665676 US-PATENT-CLASS-250-203 US-PATENT-3,421,004	N71-20441*	c 15	NASA-CASE-XMS-06329-1 US-PATENT-APPL-SN-688742 US-PATENT-CLASS-73-141 US-PATENT-3,472,069	N71-20747*	c 25	NASA-CASE-XLE-02578 US-PATENT-APPL-SN-469012 US-PATENT-CLASS-313-271 US-PATENT-3,356,885
N71-19569*	c 15	NASA-CASE-XLA-05749 US-PATENT-APPL-SN-621714 US-PATENT-CLASS-137-582 US-PATENT-3,426,791	N71-20442*	c 14	NASA-CASE-MFS-11537 US-PATENT-APPL-SN-636878 US-PATENT-CLASS-23-254 US-PATENT-3,472,629	N71-20782*	c 10	NASA-CASE-XGS-01784 US-PATENT-APPL-SN-396444 US-PATENT-CLASS-250-206 US-PATENT-3,348,053
N71-19570*	c 15	NASA-CASE-XLE-05130-2 US-PATENT-APPL-SN-700586 US-PATENT-CLASS-277-25 US-PATENT-3,466,052	N71-20443*	c 15	NASA-CASE-MFS-07369 US-PATENT-APPL-SN-640462 US-PATENT-CLASS-29-492 US-PATENT-3,473,216	N71-20791*	c 07	NASA-CASE-XNP-05254 US-PATENT-APPL-SN-472372 US-PATENT-CLASS-325-31 US-PATENT-3,350,643
N71-19610*	c 09	NASA-CASE-NPO-10037 US-PATENT-APPL-SN-700987 US-PATENT-CLASS-200-152 US-PATENT-3,470,342	N71-20445*	c 09	NASA-CASE-XNP-09775 US-PATENT-APPL-SN-668247 US-PATENT-CLASS-333-96 US-PATENT-3,474,357	N71-20813*	c 15	NASA-CASE-XMS-02184 US-PATENT-APPL-SN-608247 US-PATENT-CLASS-248-27 US-PATENT-3,361,400
N71-19687*	c 08	NASA-CASE-XNP-04780 US-PATENT-APPL-SN-455477 US-PATENT-CLASS-340-347 US-PATENT-3,430,227	N71-20446*	c 09	NASA-CASE-XLE-04250 US-PATENT-APPL-SN-621098 US-PATENT-CLASS-310-54 US-PATENT-3,447,003	N71-20814*	c 07	NASA-CASE-XNP-01306 US-PATENT-APPL-SN-343426 US-PATENT-CLASS-179-15 US-PATENT-3,364,311
N71-19763*	c 08	NASA-CASE-XAC-06302 US-PATENT-APPL-SN-574284 US-PATENT-CLASS-325-60 US-PATENT-3,456,193	N71-20447*	c 09	NASA-CASE-XLA-02850 US-PATENT-APPL-SN-556784 US-PATENT-CLASS-307-267 US-PATENT-3,473,050	N71-20815*	c 12	NASA-CASE-XMF-01779 US-PATENT-APPL-SN-521999 US-PATENT-CLASS-346-1 US-PATENT-3,357,024
N71-19773*	c 07	NASA-CASE-GSC-10373-1 US-PATENT-APPL-SN-712658 US-PATENT-CLASS-325-4 US-PATENT-3,532,985	N71-20448*	c 10	NASA-CASE-XNP-03744 US-PATENT-APPL-SN-547677 US-PATENT-CLASS-318-314 US-PATENT-3,424,966	N71-20816*	c 09	NASA-CASE-XAC-01677 US-PATENT-APPL-SN-596338 US-PATENT-CLASS-73-147 US-PATENT-3,360,988
N71-19854*	c 07	NASA-CASE-GSC-10553-1 US-PATENT-APPL-SN-820963 US-PATENT-CLASS-343-100 US-PATENT-3,534,365	N71-20461*	c 14	NASA-CASE-XNP-09763 US-PATENT-APPL-SN-600682 US-PATENT-CLASS-117-6 US-PATENT-3,433,662	N71-20834*	c 33	NASA-CASE-XMS-02009 US-PATENT-APPL-SN-455352 US-PATENT-CLASS-141-5 US-PATENT-3,349,814
N71-20268*	c 05	NASA-CASE-XLA-02898 US-PATENT-APPL-SN-429932 US-PATENT-CLASS-128-1 US-PATENT-3,461,855	N71-20491*	c 03	NASA-CASE-XGS-05434 US-PATENT-APPL-SN-667836 US-PATENT-CLASS-136-182 US-PATENT-3,463,673	N71-20841*	c 10	NASA-CASE-XGS-01222 US-PATENT-APPL-SN-354182 US-PATENT-CLASS-325-305 US-PATENT-3,348,152
N71-20273*	c 03	NASA-CASE-NPO-10188 US-PATENT-APPL-SN-681687 US-PATENT-CLASS-244-1 US-PATENT-3,473,758	N71-20492*	c 03	NASA-CASE-XLE-04787 US-PATENT-APPL-SN-551846 US-PATENT-CLASS-136-89 US-PATENT-3,434,885	N71-20842*	c 09	NASA-CASE-XNP-05381 US-PATENT-APPL-SN-568352 US-PATENT-CLASS-338-82 US-PATENT-3,350,671
N71-20330*	c 28	NASA-CASE-XLE-103477-1 US-PATENT-APPL-SN-466390 US-PATENT-CLASS-60-39.36 US-PATENT-3,433,015	N71-20518*	c 24	NASA-CASE-XNP-02592 US-PATENT-APPL-SN-484490 US-PATENT-CLASS-324-33 US-PATENT-3,430,131	N71-20851*	c 09	NASA-CASE-XNP-04732 US-PATENT-APPL-SN-557584 US-PATENT-CLASS-339-177 US-PATENT-3,358,264
N71-20393*	c 15	NASA-CASE-MFS-06074 US-PATENT-APPL-SN-688743 US-PATENT-CLASS-228-9 US-PATENT-3,458,104	N71-20563*	c 25	NASA-CASE-XLA-06232 US-PATENT-APPL-SN-612740 US-PATENT-CLASS-324-58.5 US-PATENT-3,473,116	N71-20852*	c 10	NASA-CASE-XGS-03502 US-PATENT-APPL-SN-584066 US-PATENT-CLASS-331-17 US-PATENT-3,361,985
N71-20395*	c 15	NASA-CASE-XMF-06065 US-PATENT-APPL-SN-665679 US-PATENT-CLASS-219-275 US-PATENT-3,466,424	N71-20569*	c 09	NASA-CASE-XMS-08589-1 US-PATENT-APPL-SN-544899 US-PATENT-CLASS-324-57 US-PATENT-3,434,050	N71-20864*	c 09	NASA-CASE-XGS-03501 US-PATENT-APPL-SN-576521 US-PATENT-CLASS-343-16 US-PATENT-3,359,555
N71-20396*	c 31	NASA-CASE-XMF-08523 US-PATENT-APPL-SN-645563 US-PATENT-CLASS-244-1 US-PATENT-3,465,986	N71-20570*	c 02	NASA-CASE-XAC-08972 US-PATENT-APPL-SN-700174 US-PATENT-CLASS-244-76 US-PATENT-3,472,470	N71-20895*	c 03	NASA-CASE-XNP-00826 US-PATENT-APPL-SN-327163 US-PATENT-CLASS-136-89 US-PATENT-3,346,419
N71-20400*	c 16	NASA-CASE-MFS-11279 US-PATENT-APPL-SN-628094 US-PATENT-CLASS-219-121 US-PATENT-3,472,998	N71-20571*	c 08	NASA-CASE-XGS-04987 US-PATENT-APPL-SN-619908 US-PATENT-CLASS-315-24 US-PATENT-3,437,874	N71-20896*	c 12	NASA-CASE-XNP-02251 US-PATENT-APPL-SN-432030 US-PATENT-CLASS-321-48 US-PATENT-3,337,790
N71-20407*	c 03	NASA-CASE-NPO-10194 US-PATENT-APPL-SN-668249 US-PATENT-CLASS-136-182 US-PATENT-3,460,995	N71-20658*	c 09	NASA-CASE-XMS-03454 US-PATENT-APPL-SN-425363 US-PATENT-CLASS-343-915 US-PATENT-3,360,798	N71-20904*	c 03	NASA-CASE-XLE-01645 US-PATENT-APPL-SN-342574 US-PATENT-CLASS-136-86 US-PATENT-3,357,862
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N71-22890*	c 33	US-PATENT-3,373,430	N71-22993*	c 14	US-PATENT-3,377,845	N71-23037*	c 14	US-PATENT-3,383,903																																																																																																																																																																																																																																																																																																																																																																																																																													
		NASA-CASE-XLA-07728			US-PATENT-APPL-SN-538908			US-PATENT-CLASS-165-96	N71-22894*	c 18	US-PATENT-3,374,830	N71-22994*	c 15	US-PATENT-3,387,149	N71-23039*	c 14	US-PATENT-3,365,665	NASA-CASE-XLE-03925	US-PATENT-APPL-SN-514407	US-PATENT-CLASS-75-204	N71-22895*	c 16	US-PATENT-3,337,337	N71-22995*	c 14	US-PATENT-3,378,892	N71-23040*	c 14	US-PATENT-3,377,208	NASA-CASE-XMS-04269	US-PATENT-APPL-SN-516793	US-PATENT-CLASS-250-199	N71-22896*	c 05	US-PATENT-3,341,708	N71-22996*	c 14	US-PATENT-3,376,730	N71-23041*	c 14	US-PATENT-3,339,863	NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344	US-PATENT-CLASS-128-2.06	N71-22897*	c 08	US-PATENT-3,384,075	N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*	c 11	US-PATENT-3,340,395	NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*	c 10	US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315	N71-23043*	c 26	US-PATENT-3,395,053	NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09	US-PATENT-3,382,082	N71-23046*	c 17	US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14	US-PATENT-3,366,886	N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14	US-PATENT-3,365,930	N71-23006*	c 03	US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685	N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686	N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107	N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339	N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895	N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303	N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517	N71-23029*	c 10	US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714	N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974	N71-23033*	c 10	US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318	N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																									
		US-PATENT-APPL-SN-538908			US-PATENT-CLASS-165-96			N71-22894*			c 18			US-PATENT-3,374,830			N71-22994*	c 15	US-PATENT-3,387,149	N71-23039*			c 14			US-PATENT-3,365,665			NASA-CASE-XLE-03925	US-PATENT-APPL-SN-514407	US-PATENT-CLASS-75-204	N71-22895*			c 16			US-PATENT-3,337,337			N71-22995*	c 14	US-PATENT-3,378,892	N71-23040*			c 14			US-PATENT-3,377,208			NASA-CASE-XMS-04269	US-PATENT-APPL-SN-516793	US-PATENT-CLASS-250-199	N71-22896*			c 05			US-PATENT-3,341,708			N71-22996*	c 14	US-PATENT-3,376,730	N71-23041*			c 14			US-PATENT-3,339,863			NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344	US-PATENT-CLASS-128-2.06	N71-22897*			c 08			US-PATENT-3,384,075			N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*			c 11			US-PATENT-3,340,395			NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*			c 10			US-PATENT-3,374,339			N71-22998*	c 18	US-PATENT-3,378,315	N71-23043*			c 26			US-PATENT-3,395,053			NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*			c 10			US-PATENT-3,365,657			N71-22999*	c 09	US-PATENT-3,382,082	N71-23046*			c 17			US-PATENT-3,421,864			NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*			c 14			US-PATENT-3,366,886			N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*			c 18			US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*			c 14			US-PATENT-3,365,930			N71-23006*	c 03	US-PATENT-3,380,042	N71-23048*			c 15			US-PATENT-3,395,053			NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*			c 31			US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*			c 15			US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*			c 31			US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*			c 15			US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*			c 03			US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*			c 15			US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*			c 06			US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339	N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895	N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303	N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517	N71-23029*	c 10	US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714	N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974	N71-23033*	c 10	US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318	N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65
		US-PATENT-CLASS-165-96																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22894*	c 18	US-PATENT-3,374,830	N71-22994*	c 15	US-PATENT-3,387,149	N71-23039*	c 14							US-PATENT-3,365,665																																																																																																																																																																																																																																																																																																																																																																																																																							
		NASA-CASE-XLE-03925			US-PATENT-APPL-SN-514407				US-PATENT-CLASS-75-204	N71-22895*		c 16	US-PATENT-3,337,337	N71-22995*	c 14	US-PATENT-3,378,892			N71-23040*		c 14	US-PATENT-3,377,208		NASA-CASE-XMS-04269	US-PATENT-APPL-SN-516793	US-PATENT-CLASS-250-199	N71-22896*	c 05	US-PATENT-3,341,708	N71-22996*	c 14		US-PATENT-3,376,730	N71-23041*		c 14	US-PATENT-3,339,863	NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344	US-PATENT-CLASS-128-2.06			N71-22897*		c 08	US-PATENT-3,384,075		N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*	c 11	US-PATENT-3,340,395	NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412		US-PATENT-CLASS-235-92	N71-22961*		c 10	US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315			N71-23043*		c 26	US-PATENT-3,395,053		NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09		US-PATENT-3,382,082	N71-23046*		c 17	US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233			N71-22964*		c 14	US-PATENT-3,366,886		N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099		US-PATENT-CLASS-73-15	N71-22965*		c 14	US-PATENT-3,365,930	N71-23006*	c 03	US-PATENT-3,380,042			N71-23048*		c 15	US-PATENT-3,395,053		NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02		US-PATENT-3,340,099	N71-23049*		c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1			N71-22969*		c 31	US-PATENT-3,386,685		N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728		US-PATENT-CLASS-244-1	N71-22974*		c 03	US-PATENT-3,386,686	N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*		c 15	US-PATENT-3,373,069		NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107	N71-23015*	c 09		US-PATENT-3,341,151	N71-23052*		c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26			N71-22982*		c 15	US-PATENT-3,381,339		N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897		US-PATENT-CLASS-308-176	N71-22983*		c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*		c 28	US-PATENT-3,337,279		NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15		US-PATENT-3,389,017	N71-23084*		c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708			N71-22985*		c 09	US-PATENT-3,384,895		N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958		US-PATENT-CLASS-250-83.3	N71-22986*		c 10	US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*		c 15	US-PATENT-3,367,182		NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07		US-PATENT-3,367,121	N71-23087*		c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352			N71-22988*			c 09	US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461			N71-23088*			c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1			N71-22989*			c 14	US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599			N71-23092*			c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190			N71-22990*			c 14	US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524			N71-23093*			c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70			N71-22991*			c 14	US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066			N71-23096*			c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227			N71-22992*			c 14	US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387			N71-23097*			c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																					
		US-PATENT-APPL-SN-514407			US-PATENT-CLASS-75-204			N71-22895*	c 16		US-PATENT-3,337,337		N71-22995*			c 14	US-PATENT-3,378,892	N71-23040*		c 14		US-PATENT-3,377,208	NASA-CASE-XMS-04269	US-PATENT-APPL-SN-516793	US-PATENT-CLASS-250-199	N71-22896*			c 05			US-PATENT-3,341,708	N71-22996*		c 14		US-PATENT-3,376,730	N71-23041*	c 14	US-PATENT-3,339,863	NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344		US-PATENT-CLASS-128-2.06		N71-22897*	c 08			US-PATENT-3,384,075			N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*	c 11		US-PATENT-3,340,395		NASA-CASE-XNP-01753			US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*		c 10		US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315	N71-23043*			c 26			US-PATENT-3,395,053	NASA-CASE-XMS-02159		US-PATENT-APPL-SN-534564		US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09		US-PATENT-3,382,082		N71-23046*	c 17			US-PATENT-3,421,864			NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14		US-PATENT-3,366,886		N71-23001*			c 07	US-PATENT-3,364,813	N71-23047*		c 18		US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*			c 14			US-PATENT-3,365,930	N71-23006*		c 03		US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205		US-PATENT-CLASS-73-117		N71-22968*	c 31			US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*	c 15		US-PATENT-3,375,479		NASA-CASE-XLA-02050			US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*		c 31		US-PATENT-3,386,685	N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*			c 15			US-PATENT-3,373,914	NASA-CASE-XLA-03132		US-PATENT-APPL-SN-610728		US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686	N71-23009*	c 31		US-PATENT-3,384,016		N71-23051*	c 15			US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06		US-PATENT-3,382,107		N71-23015*			c 09	US-PATENT-3,341,151	N71-23052*		c 15		US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*			c 15			US-PATENT-3,381,339	N71-23021*		c 09		US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897		US-PATENT-CLASS-308-176		N71-22983*	c 28			US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28		US-PATENT-3,337,279		NASA-CASE-XMF-06926			US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*		c 07		US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*			c 10			US-PATENT-3,367,114	NASA-CASE-XMS-04312		US-PATENT-APPL-SN-521754		US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895	N71-23024*	c 15		US-PATENT-3,397,512	N71-23085*		c 33			US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*		c 10	US-PATENT-3,379,885		N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878		US-PATENT-CLASS-328-167	N71-22987*		c 09			US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*		c 14	US-PATENT-3,397,117		NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303	N71-23027*	c 09		US-PATENT-3,383,461	N71-23088*		c 18			US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*		c 14	US-PATENT-3,381,517		N71-23029*	c 10	US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092		US-PATENT-CLASS-73-190	N71-22990*		c 14			US-PATENT-3,382,714	N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*		c 14	US-PATENT-3,337,004		NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974	N71-23033*	c 10		US-PATENT-3,342,066	N71-23096*		c 05			US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*		c 14	US-PATENT-3,397,318		N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																		
		US-PATENT-CLASS-75-204																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22895*	c 16	US-PATENT-3,337,337	N71-22995*	c 14	US-PATENT-3,378,892	N71-23040*	c 14				US-PATENT-3,377,208																																																																																																																																																																																																																																																																																																																																																																																																																										
		NASA-CASE-XMS-04269			US-PATENT-APPL-SN-516793					US-PATENT-CLASS-250-199	N71-22896*	c 05		US-PATENT-3,341,708	N71-22996*		c 14		US-PATENT-3,376,730		N71-23041*	c 14	US-PATENT-3,339,863	NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344		US-PATENT-CLASS-128-2.06	N71-22897*		c 08	US-PATENT-3,384,075	N71-22997*		c 15		US-PATENT-3,388,258	N71-23042*			c 11	US-PATENT-3,340,395	NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*			c 10	US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315			N71-23043*			c 26	US-PATENT-3,395,053	NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657		N71-22999*		c 09	US-PATENT-3,382,082			N71-23046*		c 17	US-PATENT-3,421,864		NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14	US-PATENT-3,366,886	N71-23001*	c 07			US-PATENT-3,364,813			N71-23047*	c 18	US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14	US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15		US-PATENT-3,395,053	NASA-CASE-XGS-02319		US-PATENT-APPL-SN-496205		US-PATENT-CLASS-73-117		N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02		US-PATENT-3,340,099	N71-23049*		c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050		US-PATENT-APPL-SN-568067		US-PATENT-CLASS-244-1	N71-22969*			c 31	US-PATENT-3,386,685	N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*			c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1			N71-22974*			c 03	US-PATENT-3,386,686	N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069		NASA-CASE-XGS-02630		US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132			N71-22975*		c 06	US-PATENT-3,382,107		N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26			N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28		US-PATENT-3,397,932	N71-23022*		c 15		US-PATENT-3,384,820		N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615		US-PATENT-CLASS-60-258	N71-22984*		c 07	US-PATENT-3,336,754	N71-23023*		c 15		US-PATENT-3,389,017	N71-23084*			c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*			c 09	US-PATENT-3,384,895	N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*			c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885		N71-23025*		c 15	US-PATENT-3,341,169			N71-23086*		c 15	US-PATENT-3,367,182		NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121			N71-23087*	c 14		US-PATENT-3,397,117		NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303		N71-23027*		c 09	US-PATENT-3,383,461			N71-23088*			c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1		N71-22989*		c 14	US-PATENT-3,381,517	N71-23029*			c 10		US-PATENT-3,340,599		N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190			N71-22990*	c 14		US-PATENT-3,382,714		N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004		NASA-CASE-XMS-04201		US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70			N71-22991*			c 14	US-PATENT-3,379,974	N71-23033*	c 10	US-PATENT-3,342,066		N71-23096*		c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791			US-PATENT-APPL-SN-462763		US-PATENT-CLASS-250-227		N71-22992*	c 14	US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387			N71-23097*	c 09		US-PATENT-3,378,851		NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																			
		US-PATENT-APPL-SN-516793			US-PATENT-CLASS-250-199			N71-22896*	c 05	US-PATENT-3,341,708			N71-22996*	c 14		US-PATENT-3,376,730		N71-23041*	c 14	US-PATENT-3,339,863			NASA-CASE-XMS-02399	US-PATENT-APPL-SN-492344	US-PATENT-CLASS-128-2.06	N71-22897*	c 08		US-PATENT-3,384,075		N71-22997*		c 15		US-PATENT-3,388,258	N71-23042*		c 11	US-PATENT-3,340,395		NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*		c 10	US-PATENT-3,374,339		N71-22998*			c 18	US-PATENT-3,378,315	N71-23043*		c 26	US-PATENT-3,395,053		NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*			c 10	US-PATENT-3,365,657		N71-22999*		c 09	US-PATENT-3,382,082	N71-23046*		c 17		US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*			c 14			US-PATENT-3,366,886	N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*			c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*			c 14			US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*			c 31			US-PATENT-3,365,941	N71-23007*		c 02		US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067		US-PATENT-CLASS-244-1	N71-22969*		c 31			US-PATENT-3,386,685		N71-23008*	c 31		US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728		US-PATENT-CLASS-244-1	N71-22974*		c 03			US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287		US-PATENT-CLASS-136-132		N71-22975*	c 06			US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897		US-PATENT-CLASS-308-176		N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28		US-PATENT-3,337,279		NASA-CASE-XMF-06926		US-PATENT-APPL-SN-537615		US-PATENT-CLASS-60-258	N71-22984*		c 07	US-PATENT-3,336,754		N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*		c 10	US-PATENT-3,367,114		NASA-CASE-XMS-04312			US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*		c 09	US-PATENT-3,384,895		N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*			c 33	US-PATENT-3,366,894		NASA-CASE-XMF-03934		US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*		c 10		US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*			c 15			US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*			c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*			c 14	US-PATENT-3,397,117		NASA-CASE-XLE-04788		US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*		c 09	US-PATENT-3,396,303		N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*	c 18		US-PATENT-3,388,590		NASA-CASE-XGS-03304		US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1		N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254		US-PATENT-CLASS-324-70	N71-22991*		c 14			US-PATENT-3,379,974	N71-23033*		c 10		US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*			c 14			US-PATENT-3,397,318	N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*			c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																				
		US-PATENT-CLASS-250-199																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22896*	c 05	US-PATENT-3,341,708	N71-22996*	c 14	US-PATENT-3,376,730	N71-23041*	c 14			US-PATENT-3,339,863																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMS-02399			US-PATENT-APPL-SN-492344					US-PATENT-CLASS-128-2.06	N71-22897*	c 08			US-PATENT-3,384,075	N71-22997*	c 15			US-PATENT-3,388,258	N71-23042*	c 11	US-PATENT-3,340,395	NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412			US-PATENT-CLASS-235-92	N71-22961*	c 10		US-PATENT-3,374,339		N71-22998*	c 18		US-PATENT-3,378,315		N71-23043*	c 26	US-PATENT-3,395,053	NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564		US-PATENT-CLASS-323-56		N71-22962*	c 10		US-PATENT-3,365,657	N71-22999*		c 09		US-PATENT-3,382,082		N71-23046*	c 17	US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321		US-PATENT-CLASS-328-233	N71-22964*		c 14	US-PATENT-3,366,886		N71-23001*		c 07		US-PATENT-3,364,813		N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099		US-PATENT-CLASS-73-15	N71-22965*		c 14	US-PATENT-3,365,930	N71-23006*			c 03		US-PATENT-3,380,042	N71-23048*		c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205		US-PATENT-CLASS-73-117	N71-22968*		c 31	US-PATENT-3,365,941	N71-23007*			c 02	US-PATENT-3,340,099	N71-23049*			c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067		US-PATENT-CLASS-244-1	N71-22969*		c 31	US-PATENT-3,386,685	N71-23008*		c 31		US-PATENT-3,340,732	N71-23050*			c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1		N71-22974*		c 03	US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*			c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132		N71-22975*		c 06	US-PATENT-3,382,107	N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*			c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*			c 15	US-PATENT-3,381,339	N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*			c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*			c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*			c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*			c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895		N71-23024*		c 15	US-PATENT-3,397,512			N71-23085*		c 33		US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885		N71-23025*		c 15	US-PATENT-3,341,169			N71-23086*		c 15	US-PATENT-3,367,182		NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451		N71-23026*		c 07	US-PATENT-3,367,121			N71-23087*		c 14	US-PATENT-3,397,117		NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303		N71-23027*	c 09		US-PATENT-3,383,461			N71-23088*		c 18	US-PATENT-3,388,590		NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517		N71-23029*		c 10	US-PATENT-3,340,599			N71-23092*			c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*			c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*			c 14	US-PATENT-3,379,974	N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*			c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227		N71-22992*		c 14	US-PATENT-3,397,318	N71-23036*		c 14		US-PATENT-3,388,387	N71-23097*			c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131		US-PATENT-CLASS-73-65																																																				
		US-PATENT-APPL-SN-492344			US-PATENT-CLASS-128-2.06			N71-22897*	c 08	US-PATENT-3,384,075			N71-22997*	c 15	US-PATENT-3,388,258			N71-23042*	c 11	US-PATENT-3,340,395			NASA-CASE-XNP-01753	US-PATENT-APPL-SN-423412	US-PATENT-CLASS-235-92	N71-22961*	c 10	US-PATENT-3,374,339			N71-22998*	c 18	US-PATENT-3,378,315			N71-23043*	c 26	US-PATENT-3,395,053			NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657			N71-22999*	c 09		US-PATENT-3,382,082		N71-23046*	c 17	US-PATENT-3,421,864			NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14		US-PATENT-3,366,886		N71-23001*	c 07		US-PATENT-3,364,813		N71-23047*	c 18	US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14		US-PATENT-3,365,930		N71-23006*		c 03	US-PATENT-3,380,042		N71-23048*	c 15		US-PATENT-3,395,053		NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31		US-PATENT-3,365,941		N71-23007*		c 02	US-PATENT-3,340,099		N71-23049*		c 15	US-PATENT-3,375,479		NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31		US-PATENT-3,386,685		N71-23008*		c 31		US-PATENT-3,340,732	N71-23050*		c 15	US-PATENT-3,373,914		NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03		US-PATENT-3,386,686		N71-23009*			c 31	US-PATENT-3,384,016	N71-23051*		c 15	US-PATENT-3,373,069		NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06		US-PATENT-3,382,107		N71-23015*			c 09	US-PATENT-3,341,151	N71-23052*		c 15	US-PATENT-3,369,564		NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*		c 15	US-PATENT-3,381,339		N71-23021*			c 09	US-PATENT-3,374,366	N71-23080*		c 05	US-PATENT-3,373,069		NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*		c 28	US-PATENT-3,397,932		N71-23022*			c 15	US-PATENT-3,384,820	N71-23081*		c 28	US-PATENT-3,337,279		NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*			c 07	US-PATENT-3,336,754	N71-23023*			c 15	US-PATENT-3,389,017	N71-23084*		c 10	US-PATENT-3,367,114		NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*			c 09	US-PATENT-3,384,895		N71-23024*		c 15	US-PATENT-3,397,512	N71-23085*		c 33		US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*			c 10	US-PATENT-3,379,885		N71-23025*		c 15	US-PATENT-3,341,169	N71-23086*		c 15		US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*			c 09	US-PATENT-3,375,451		N71-23026*		c 07	US-PATENT-3,367,121	N71-23087*		c 14		US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*			c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*		c 18		US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*			c 14	US-PATENT-3,381,517		N71-23029*		c 10	US-PATENT-3,340,599	N71-23092*		c 14	US-PATENT-3,337,315		NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*			c 14	US-PATENT-3,382,714	N71-23030*			c 11	US-PATENT-3,383,524	N71-23093*		c 14	US-PATENT-3,337,004		NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*		c 14	US-PATENT-3,379,974		N71-23033*			c 10	US-PATENT-3,342,066	N71-23096*		c 05	US-PATENT-3,379,064		NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14		US-PATENT-3,397,318		N71-23036*		c 14		US-PATENT-3,388,387	N71-23097*		c 09	US-PATENT-3,378,851		NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																						
		US-PATENT-CLASS-128-2.06																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22897*	c 08	US-PATENT-3,384,075	N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*	c 11			US-PATENT-3,340,395																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XNP-01753			US-PATENT-APPL-SN-423412					US-PATENT-CLASS-235-92	N71-22961*	c 10			US-PATENT-3,374,339	N71-22998*	c 18			US-PATENT-3,378,315	N71-23043*	c 26	US-PATENT-3,395,053	NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564			US-PATENT-CLASS-323-56	N71-22962*	c 10			US-PATENT-3,365,657	N71-22999*	c 09			US-PATENT-3,382,082	N71-23046*	c 17	US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321			US-PATENT-CLASS-328-233	N71-22964*	c 14			US-PATENT-3,366,886	N71-23001*	c 07			US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099			US-PATENT-CLASS-73-15	N71-22965*	c 14			US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205			US-PATENT-CLASS-73-117	N71-22968*	c 31		US-PATENT-3,365,941		N71-23007*	c 02			US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1	N71-22969*	c 31		US-PATENT-3,386,685		N71-23008*	c 31		US-PATENT-3,340,732		N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03		US-PATENT-3,386,686		N71-23009*	c 31		US-PATENT-3,384,016		N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06		US-PATENT-3,382,107	N71-23015*		c 09		US-PATENT-3,341,151		N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15		US-PATENT-3,381,339	N71-23021*		c 09		US-PATENT-3,374,366		N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897		US-PATENT-CLASS-308-176		N71-22983*	c 28		US-PATENT-3,397,932	N71-23022*		c 15		US-PATENT-3,384,820		N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615		US-PATENT-CLASS-60-258		N71-22984*	c 07		US-PATENT-3,336,754	N71-23023*		c 15		US-PATENT-3,389,017		N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754		US-PATENT-CLASS-343-708	N71-22985*		c 09		US-PATENT-3,384,895	N71-23024*		c 15		US-PATENT-3,397,512		N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958		US-PATENT-CLASS-250-83.3	N71-22986*		c 10	US-PATENT-3,379,885		N71-23025*		c 15		US-PATENT-3,341,169		N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878		US-PATENT-CLASS-328-167	N71-22987*		c 09	US-PATENT-3,375,451		N71-23026*		c 07		US-PATENT-3,367,121		N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617		US-PATENT-CLASS-313-352	N71-22988*		c 09	US-PATENT-3,396,303		N71-23027*		c 09		US-PATENT-3,383,461		N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886		US-PATENT-CLASS-73-1	N71-22989*		c 14	US-PATENT-3,381,517	N71-23029*			c 10		US-PATENT-3,340,599		N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092		US-PATENT-CLASS-73-190	N71-22990*		c 14	US-PATENT-3,382,714		N71-23030*		c 11		US-PATENT-3,383,524		N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254		US-PATENT-CLASS-324-70	N71-22991*		c 14		US-PATENT-3,379,974	N71-23033*		c 10		US-PATENT-3,342,066		N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763		US-PATENT-CLASS-250-227		N71-22992*	c 14		US-PATENT-3,397,318	N71-23036*		c 14		US-PATENT-3,388,387		N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																					
		US-PATENT-APPL-SN-423412			US-PATENT-CLASS-235-92			N71-22961*	c 10	US-PATENT-3,374,339			N71-22998*	c 18	US-PATENT-3,378,315			N71-23043*	c 26	US-PATENT-3,395,053			NASA-CASE-XMS-02159	US-PATENT-APPL-SN-534564	US-PATENT-CLASS-323-56	N71-22962*	c 10	US-PATENT-3,365,657			N71-22999*	c 09	US-PATENT-3,382,082			N71-23046*	c 17	US-PATENT-3,421,864			NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14	US-PATENT-3,366,886			N71-23001*	c 07	US-PATENT-3,364,813			N71-23047*	c 18	US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14	US-PATENT-3,365,930			N71-23006*	c 03	US-PATENT-3,380,042			N71-23048*	c 15	US-PATENT-3,395,053			NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099			N71-23049*	c 15	US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09		US-PATENT-3,341,151		N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09		US-PATENT-3,374,366		N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15		US-PATENT-3,384,820		N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15		US-PATENT-3,389,017		N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09		US-PATENT-3,384,895		N71-23024*	c 15		US-PATENT-3,397,512		N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10		US-PATENT-3,379,885		N71-23025*	c 15		US-PATENT-3,341,169		N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09		US-PATENT-3,375,451		N71-23026*	c 07		US-PATENT-3,367,121		N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09		US-PATENT-3,396,303		N71-23027*	c 09		US-PATENT-3,383,461		N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14		US-PATENT-3,381,517		N71-23029*		c 10	US-PATENT-3,340,599		N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14		US-PATENT-3,382,714		N71-23030*	c 11		US-PATENT-3,383,524		N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14		US-PATENT-3,379,974		N71-23033*	c 10		US-PATENT-3,342,066		N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14		US-PATENT-3,388,387		N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																								
		US-PATENT-CLASS-235-92																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22961*	c 10	US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315	N71-23043*	c 26			US-PATENT-3,395,053																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMS-02159			US-PATENT-APPL-SN-534564					US-PATENT-CLASS-323-56	N71-22962*	c 10			US-PATENT-3,365,657	N71-22999*	c 09			US-PATENT-3,382,082	N71-23046*	c 17	US-PATENT-3,421,864	NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321			US-PATENT-CLASS-328-233	N71-22964*	c 14			US-PATENT-3,366,886	N71-23001*	c 07			US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099			US-PATENT-CLASS-73-15	N71-22965*	c 14			US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205			US-PATENT-CLASS-73-117	N71-22968*	c 31			US-PATENT-3,365,941	N71-23007*	c 02			US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1	N71-22969*	c 31			US-PATENT-3,386,685	N71-23008*	c 31			US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14		US-PATENT-3,382,714		N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																							
		US-PATENT-APPL-SN-534564			US-PATENT-CLASS-323-56			N71-22962*	c 10	US-PATENT-3,365,657			N71-22999*	c 09	US-PATENT-3,382,082			N71-23046*	c 17	US-PATENT-3,421,864			NASA-CASE-XGS-05441	US-PATENT-APPL-SN-505321	US-PATENT-CLASS-328-233	N71-22964*	c 14	US-PATENT-3,366,886			N71-23001*	c 07	US-PATENT-3,364,813			N71-23047*	c 18	US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14	US-PATENT-3,365,930			N71-23006*	c 03	US-PATENT-3,380,042			N71-23048*	c 15	US-PATENT-3,395,053			NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099			N71-23049*	c 15	US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																										
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N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09	US-PATENT-3,382,082	N71-23046*	c 17			US-PATENT-3,421,864																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XGS-05441			US-PATENT-APPL-SN-505321					US-PATENT-CLASS-328-233	N71-22964*	c 14			US-PATENT-3,366,886	N71-23001*	c 07			US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,367,445	NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099			US-PATENT-CLASS-73-15	N71-22965*	c 14			US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205			US-PATENT-CLASS-73-117	N71-22968*	c 31			US-PATENT-3,365,941	N71-23007*	c 02			US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1	N71-22969*	c 31			US-PATENT-3,386,685	N71-23008*	c 31			US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																									
		US-PATENT-APPL-SN-505321			US-PATENT-CLASS-328-233			N71-22964*	c 14	US-PATENT-3,366,886			N71-23001*	c 07	US-PATENT-3,364,813			N71-23047*	c 18	US-PATENT-3,367,445			NASA-CASE-XLE-02024	US-PATENT-APPL-SN-422099	US-PATENT-CLASS-73-15	N71-22965*	c 14	US-PATENT-3,365,930			N71-23006*	c 03	US-PATENT-3,380,042			N71-23048*	c 15	US-PATENT-3,395,053			NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099			N71-23049*	c 15	US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																												
		US-PATENT-CLASS-328-233																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22964*	c 14	US-PATENT-3,366,886	N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*	c 18			US-PATENT-3,367,445																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XLE-02024			US-PATENT-APPL-SN-422099					US-PATENT-CLASS-73-15	N71-22965*	c 14			US-PATENT-3,365,930	N71-23006*	c 03			US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053	NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205			US-PATENT-CLASS-73-117	N71-22968*	c 31			US-PATENT-3,365,941	N71-23007*	c 02			US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1	N71-22969*	c 31			US-PATENT-3,386,685	N71-23008*	c 31			US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																											
		US-PATENT-APPL-SN-422099			US-PATENT-CLASS-73-15			N71-22965*	c 14	US-PATENT-3,365,930			N71-23006*	c 03	US-PATENT-3,380,042			N71-23048*	c 15	US-PATENT-3,395,053			NASA-CASE-XGS-02319	US-PATENT-APPL-SN-496205	US-PATENT-CLASS-73-117	N71-22968*	c 31	US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099			N71-23049*	c 15	US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																														
		US-PATENT-CLASS-73-15																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22965*	c 14	US-PATENT-3,365,930	N71-23006*	c 03	US-PATENT-3,380,042	N71-23048*	c 15			US-PATENT-3,395,053																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XGS-02319			US-PATENT-APPL-SN-496205					US-PATENT-CLASS-73-117	N71-22968*	c 31			US-PATENT-3,365,941	N71-23007*	c 02			US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,375,479	NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1	N71-22969*	c 31			US-PATENT-3,386,685	N71-23008*	c 31			US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																													
		US-PATENT-APPL-SN-496205			US-PATENT-CLASS-73-117			N71-22968*	c 31	US-PATENT-3,365,941			N71-23007*	c 02	US-PATENT-3,340,099			N71-23049*	c 15	US-PATENT-3,375,479			NASA-CASE-XLA-02050	US-PATENT-APPL-SN-568067	US-PATENT-CLASS-244-1	N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																
		US-PATENT-CLASS-73-117																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*	c 15			US-PATENT-3,375,479																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XLA-02050			US-PATENT-APPL-SN-568067					US-PATENT-CLASS-244-1	N71-22969*	c 31			US-PATENT-3,386,685	N71-23008*	c 31			US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,373,914	NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																															
		US-PATENT-APPL-SN-568067			US-PATENT-CLASS-244-1			N71-22969*	c 31	US-PATENT-3,386,685			N71-23008*	c 31	US-PATENT-3,340,732			N71-23050*	c 15	US-PATENT-3,373,914			NASA-CASE-XLA-03132	US-PATENT-APPL-SN-610728	US-PATENT-CLASS-244-1	N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																		
		US-PATENT-CLASS-244-1																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22969*	c 31	US-PATENT-3,386,685	N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*	c 15			US-PATENT-3,373,914																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XLA-03132			US-PATENT-APPL-SN-610728					US-PATENT-CLASS-244-1	N71-22974*	c 03			US-PATENT-3,386,686	N71-23009*	c 31			US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,069	NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																	
		US-PATENT-APPL-SN-610728			US-PATENT-CLASS-244-1			N71-22974*	c 03	US-PATENT-3,386,686			N71-23009*	c 31	US-PATENT-3,384,016			N71-23051*	c 15	US-PATENT-3,373,069			NASA-CASE-XGS-02630	US-PATENT-APPL-SN-494287	US-PATENT-CLASS-136-132	N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																				
		US-PATENT-CLASS-244-1																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22974*	c 03	US-PATENT-3,386,686	N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*	c 15			US-PATENT-3,373,069																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XGS-02630			US-PATENT-APPL-SN-494287					US-PATENT-CLASS-136-132	N71-22975*	c 06			US-PATENT-3,382,107	N71-23015*	c 09			US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564	NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																			
		US-PATENT-APPL-SN-494287			US-PATENT-CLASS-136-132			N71-22975*	c 06	US-PATENT-3,382,107			N71-23015*	c 09	US-PATENT-3,341,151			N71-23052*	c 15	US-PATENT-3,369,564			NASA-CASE-XNP-07659	US-PATENT-APPL-SN-567806	US-PATENT-CLASS-18-26	N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																						
		US-PATENT-CLASS-136-132																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22975*	c 06	US-PATENT-3,382,107	N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15			US-PATENT-3,369,564																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XNP-07659			US-PATENT-APPL-SN-567806					US-PATENT-CLASS-18-26	N71-22982*	c 15			US-PATENT-3,381,339	N71-23021*	c 09			US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069	NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																					
		US-PATENT-APPL-SN-567806			US-PATENT-CLASS-18-26			N71-22982*	c 15	US-PATENT-3,381,339			N71-23021*	c 09	US-PATENT-3,374,366			N71-23080*	c 05	US-PATENT-3,373,069			NASA-CASE-XLA-02809	US-PATENT-APPL-SN-554897	US-PATENT-CLASS-308-176	N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																								
		US-PATENT-CLASS-18-26																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22982*	c 15	US-PATENT-3,381,339	N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05			US-PATENT-3,373,069																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XLA-02809			US-PATENT-APPL-SN-554897					US-PATENT-CLASS-308-176	N71-22983*	c 28			US-PATENT-3,397,932	N71-23022*	c 15			US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279	NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																							
		US-PATENT-APPL-SN-554897			US-PATENT-CLASS-308-176			N71-22983*	c 28	US-PATENT-3,397,932			N71-23022*	c 15	US-PATENT-3,384,820			N71-23081*	c 28	US-PATENT-3,337,279			NASA-CASE-XMF-06926	US-PATENT-APPL-SN-537615	US-PATENT-CLASS-60-258	N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																										
		US-PATENT-CLASS-308-176																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22983*	c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28			US-PATENT-3,337,279																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMF-06926			US-PATENT-APPL-SN-537615					US-PATENT-CLASS-60-258	N71-22984*	c 07			US-PATENT-3,336,754	N71-23023*	c 15			US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114	NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																									
		US-PATENT-APPL-SN-537615			US-PATENT-CLASS-60-258			N71-22984*	c 07	US-PATENT-3,336,754			N71-23023*	c 15	US-PATENT-3,389,017			N71-23084*	c 10	US-PATENT-3,367,114			NASA-CASE-XMS-04312	US-PATENT-APPL-SN-521754	US-PATENT-CLASS-343-708	N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																												
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N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*	c 10			US-PATENT-3,367,114																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMS-04312			US-PATENT-APPL-SN-521754					US-PATENT-CLASS-343-708	N71-22985*	c 09			US-PATENT-3,384,895	N71-23024*	c 15			US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894	NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																											
		US-PATENT-APPL-SN-521754			US-PATENT-CLASS-343-708			N71-22985*	c 09	US-PATENT-3,384,895			N71-23024*	c 15	US-PATENT-3,397,512			N71-23085*	c 33	US-PATENT-3,366,894			NASA-CASE-XMF-03934	US-PATENT-APPL-SN-530958	US-PATENT-CLASS-250-83.3	N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																														
		US-PATENT-CLASS-343-708																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22985*	c 09	US-PATENT-3,384,895	N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*	c 33			US-PATENT-3,366,894																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMF-03934			US-PATENT-APPL-SN-530958					US-PATENT-CLASS-250-83.3	N71-22986*	c 10			US-PATENT-3,379,885	N71-23025*	c 15			US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182	NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																													
		US-PATENT-APPL-SN-530958			US-PATENT-CLASS-250-83.3			N71-22986*	c 10	US-PATENT-3,379,885			N71-23025*	c 15	US-PATENT-3,341,169			N71-23086*	c 15	US-PATENT-3,367,182			NASA-CASE-XMF-01892	US-PATENT-APPL-SN-464878	US-PATENT-CLASS-328-167	N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																
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N71-22986*	c 10	US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*	c 15			US-PATENT-3,367,182																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XMF-01892			US-PATENT-APPL-SN-464878					US-PATENT-CLASS-328-167	N71-22987*	c 09			US-PATENT-3,375,451	N71-23026*	c 07			US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117	NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																															
		US-PATENT-APPL-SN-464878			US-PATENT-CLASS-328-167			N71-22987*	c 09	US-PATENT-3,375,451			N71-23026*	c 07	US-PATENT-3,367,121			N71-23087*	c 14	US-PATENT-3,397,117			NASA-CASE-XLE-04788	US-PATENT-APPL-SN-537617	US-PATENT-CLASS-313-352	N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																		
		US-PATENT-CLASS-328-167																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*	c 14			US-PATENT-3,397,117																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XLE-04788			US-PATENT-APPL-SN-537617					US-PATENT-CLASS-313-352	N71-22988*	c 09			US-PATENT-3,396,303	N71-23027*	c 09			US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590	NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																	
		US-PATENT-APPL-SN-537617			US-PATENT-CLASS-313-352			N71-22988*	c 09	US-PATENT-3,396,303			N71-23027*	c 09	US-PATENT-3,383,461			N71-23088*	c 18	US-PATENT-3,388,590			NASA-CASE-XGS-03304	US-PATENT-APPL-SN-483886	US-PATENT-CLASS-73-1	N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																				
		US-PATENT-CLASS-313-352																																																																																																																																																																																																																																																																																																																																																																																																																																			
N71-22988*	c 09	US-PATENT-3,396,303	N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*	c 18			US-PATENT-3,388,590																																																																																																																																																																																																																																																																																																																																																																																																																											
		NASA-CASE-XGS-03304			US-PATENT-APPL-SN-483886					US-PATENT-CLASS-73-1	N71-22989*	c 14			US-PATENT-3,381,517	N71-23029*	c 10			US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315	NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																			
		US-PATENT-APPL-SN-483886			US-PATENT-CLASS-73-1			N71-22989*	c 14	US-PATENT-3,381,517			N71-23029*	c 10	US-PATENT-3,340,599			N71-23092*	c 14	US-PATENT-3,337,315			NASA-CASE-XLA-01551	US-PATENT-APPL-SN-422092	US-PATENT-CLASS-73-190	N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																						
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		NASA-CASE-XLA-01551			US-PATENT-APPL-SN-422092					US-PATENT-CLASS-73-190	N71-22990*	c 14			US-PATENT-3,382,714	N71-23030*	c 11			US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004	NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254			US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																																					
		US-PATENT-APPL-SN-422092			US-PATENT-CLASS-73-190			N71-22990*	c 14	US-PATENT-3,382,714			N71-23030*	c 11	US-PATENT-3,383,524			N71-23093*	c 14	US-PATENT-3,337,004			NASA-CASE-XMS-04201	US-PATENT-APPL-SN-507254	US-PATENT-CLASS-324-70	N71-22991*	c 14	US-PATENT-3,379,974			N71-23033*	c 10	US-PATENT-3,342,066			N71-23096*	c 05	US-PATENT-3,379,064			NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763	US-PATENT-CLASS-250-227	N71-22992*	c 14	US-PATENT-3,397,318			N71-23036*	c 14	US-PATENT-3,388,387			N71-23097*	c 09	US-PATENT-3,378,851			NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131	US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																																								
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		NASA-CASE-XMS-04201			US-PATENT-APPL-SN-507254					US-PATENT-CLASS-324-70	N71-22991*	c 14			US-PATENT-3,379,974	N71-23033*	c 10			US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064	NASA-CASE-XLA-01791	US-PATENT-APPL-SN-462763			US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																																																							
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		NASA-CASE-XLA-01791			US-PATENT-APPL-SN-462763					US-PATENT-CLASS-250-227	N71-22992*	c 14			US-PATENT-3,397,318	N71-23036*	c 14			US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851	NASA-CASE-XGS-01023	US-PATENT-APPL-SN-446131			US-PATENT-CLASS-73-65																																																																																																																																																																																																																																																																																																																																																																																																									
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N71-22992*	c 14	US-PATENT-3,397,318	N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*	c 09			US-PATENT-3,378,851																																																																																																																																																																																																																																																																																																																																																																																																																											
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N71-23098*	c 07	US-PATENT-3,337,812	N71-23269*	c 14	US-PATENT-3,419,329	N71-23544*	c 10	US-PATENT-3,393,347
		NASA-CASE-XGS-00740			NASA-CASE-XLA-01584			NASA-CASE-XNP-05382
		US-PATENT-APPL-SN-353644			US-PATENT-APPL-SN-416943			US-PATENT-APPL-SN-536217
N71-23099*	c 10	US-PATENT-CLASS-325-305	N71-23270*	c 09	US-PATENT-CLASS-250-203	N71-23545*	c 09	US-PATENT-CLASS-332-19
		US-PATENT-3,341,778			US-PATENT-3,389,260			US-PATENT-3,393,380
		NASA-CASE-XNP-08875			NASA-CASE-XMS-04919			NASA-CASE-XMF-04367
N71-23159*	c 05	US-PATENT-APPL-SN-640455	N71-23271*	c 10	US-PATENT-APPL-SN-516155	N71-23548*	c 09	US-PATENT-APPL-SN-457874
		US-PATENT-CLASS-343-6.5			US-PATENT-CLASS-307-263			US-PATENT-CLASS-307-235
		US-PATENT-3,380,049			US-PATENT-3,417,266			US-PATENT-3,404,289
N71-23161*	c 05	NASA-CASE-XMF-06589	N71-23271*	c 10	NASA-CASE-XNP-00952	N71-23548*	c 09	NASA-CASE-XNP-06507
		US-PATENT-APPL-SN-543206			US-PATENT-APPL-SN-388967			US-PATENT-APPL-SN-605099
		US-PATENT-CLASS-5-82			US-PATENT-CLASS-317-148.5			US-PATENT-CLASS-333-98
N71-23174*	c 14	US-PATENT-3,343,180	N71-23289*	c 21	US-PATENT-3,417,298	N71-23573*	c 09	US-PATENT-3,419,827
		NASA-CASE-XAC-07043			NASA-CASE-XMF-01669			NASA-CASE-XGS-01418
		US-PATENT-APPL-SN-566397			US-PATENT-APPL-SN-399419			US-PATENT-APPL-SN-392969
N71-23175*	c 14	US-PATENT-CLASS-2-2.1	N71-23292*	c 26	US-PATENT-CLASS-74-5.47	N71-23598*	c 09	US-PATENT-CLASS-333-73
		US-PATENT-3,405,406			US-PATENT-3,415,126			US-PATENT-3,393,384
		NASA-CASE-XGS-02610			NASA-CASE-XLE-10715			NASA-CASE-XER-11019
N71-23185*	c 04	US-PATENT-APPL-SN-491054	N71-23292*	c 26	US-PATENT-APPL-SN-603397	N71-23598*	c 09	US-PATENT-APPL-SN-711971
		US-PATENT-CLASS-321-60			US-PATENT-CLASS-252-62.3			US-PATENT-CLASS-331-78
		US-PATENT-3,417,316			US-PATENT-3,409,554			US-PATENT-3,470,489
N71-23187*	c 03	NASA-CASE-XKS-03509	N71-23293*	c 28	NASA-CASE-XNP-06942	N71-23599*	c 22	NASA-CASE-XLE-01903
		US-PATENT-APPL-SN-566392			US-PATENT-APPL-SN-563651			US-PATENT-APPL-SN-466868
		US-PATENT-CLASS-356-166			US-PATENT-CLASS-60-202			US-PATENT-CLASS-310-4
N71-23188*	c 09	US-PATENT-3,414,358	N71-23295*	c 08	US-PATENT-3,412,559	N71-23654*	c 26	US-PATENT-3,393,330
		NASA-CASE-XAC-05422			NASA-CASE-XNP-04819			NASA-CASE-XLE-02798
		US-PATENT-APPL-SN-483885			US-PATENT-APPL-SN-502701			US-PATENT-APPL-SN-660571
N71-23189*	c 09	US-PATENT-CLASS-128-2.05	N71-23311*	c 09	US-PATENT-CLASS-340-146.2	N71-23658*	c 18	US-PATENT-CLASS-148-1.5
		US-PATENT-3,412,729			US-PATENT-3,390,378			US-PATENT-3,390,020
		NASA-CASE-XGS-03390			NASA-CASE-XGS-03632			NASA-CASE-XLE-02647
N71-23190*	c 03	US-PATENT-APPL-SN-551182	N71-23315*	c 10	US-PATENT-APPL-SN-502739	N71-23662*	c 10	US-PATENT-APPL-SN-430226
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-260			US-PATENT-CLASS-220-9
		US-PATENT-3,419,433			US-PATENT-3,390,282			US-PATENT-3,392,864
N71-23191*	c 09	NASA-CASE-XMF-14301	N71-23316*	c 09	NASA-CASE-XLA-03356	N71-23663*	c 10	NASA-CASE-XGS-01118
		US-PATENT-APPL-SN-697341			US-PATENT-APPL-SN-536216			US-PATENT-APPL-SN-408442
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-307-234			US-PATENT-CLASS-235-154
N71-23197*	c 09	US-PATENT-3,470,446	N71-23317*	c 05	US-PATENT-3,448,290	N71-23669*	c 10	US-PATENT-3,399,299
		NASA-CASE-XNP-06028			NASA-CASE-XMS-09352			NASA-CASE-XKS-04631
		US-PATENT-APPL-SN-649356			US-PATENT-APPL-SN-564919			US-PATENT-APPL-SN-663180
N71-23225*	c 14	US-PATENT-CLASS-315-26	N71-23317*	c 05	US-PATENT-CLASS-323-22	N71-23669*	c 14	US-PATENT-CLASS-200-82
		US-PATENT-3,431,460			US-PATENT-3,417,321			US-PATENT-3,433,909
		NASA-CASE-XLE-04501			NASA-CASE-XMS-06061			NASA-CASE-XAC-10607
N71-23226*	c 09	US-PATENT-APPL-SN-522794	N71-23336*	c 03	US-PATENT-APPL-SN-605092	N71-23698*	c 14	US-PATENT-APPL-SN-665551
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-307-260			US-PATENT-CLASS-242-192
		US-PATENT-3,413,510			US-PATENT-3,467,837			US-PATENT-3,460,781
N71-23227*	c 09	NASA-CASE-XMS-05890	N71-23354*	c 03	NASA-CASE-XGS-01513	N71-23710*	c 18	US-PATENT-3,470,495
		US-PATENT-APPL-SN-650166			US-PATENT-APPL-SN-502756			NASA-CASE-XGS-08259
		US-PATENT-CLASS-137-554			US-PATENT-CLASS-136-166			US-PATENT-APPL-SN-666551
N71-23228*	c 14	US-PATENT-3,414,012	N71-23354*	c 03	US-PATENT-3,390,017	N71-23698*	c 14	US-PATENT-CLASS-242-192
		NASA-CASE-XNP-04817			NASA-CASE-XLE-04535			US-PATENT-3,460,781
		US-PATENT-APPL-SN-516152			US-PATENT-APPL-SN-588671			NASA-CASE-XMF-10289
N71-23229*	c 14	US-PATENT-CLASS-73-12	N71-23365*	c 17	US-PATENT-CLASS-250-212	N71-23699*	c 14	NASA-CASE-XNP-10289
		US-PATENT-3,412,598			US-PATENT-3,437,818			US-PATENT-APPL-SN-674356
		NASA-CASE-XNP-06509			NASA-CASE-XNP-03063			US-PATENT-CLASS-324-72
N71-23230*	c 14	US-PATENT-APPL-SN-570095	N71-23365*	c 17	US-PATENT-APPL-SN-521994	N71-23710*	c 18	US-PATENT-3,470,466
		US-PATENT-CLASS-73-194			US-PATENT-CLASS-75-172			NASA-CASE-XLE-08511
		US-PATENT-3,411,356			US-PATENT-CLASS-75-172			US-PATENT-APPL-SN-635972
N71-23231*	c 14	NASA-CASE-XMF-06515	N71-23401*	c 14	US-PATENT-3,413,115	N71-23723*	c 30	US-PATENT-CLASS-29-182.1
		US-PATENT-APPL-SN-548808			NASA-CASE-XGS-03230			US-PATENT-3,419,363
		US-PATENT-CLASS-73-432			US-PATENT-APPL-SN-517158			NASA-CASE-XNP-09832
N71-23232*	c 14	US-PATENT-3,408,870	N71-23405*	c 07	US-PATENT-CLASS-250-83	N71-23723*	c 30	US-PATENT-APPL-SN-632163
		NASA-CASE-XMF-06409			US-PATENT-CLASS-343-100			US-PATENT-CLASS-343-100
		US-PATENT-APPL-SN-575930			US-PATENT-3,419,992			US-PATENT-3,417,399
N71-23233*	c 03	US-PATENT-260-448.2	N71-23405*	c 07	US-PATENT-3,419,992	N71-23725*	c 14	US-PATENT-3,417,399
		US-PATENT-3,433,818			NASA-CASE-XGS-01537			NASA-CASE-XGS-01013
		NASA-CASE-XMF-08217			US-PATENT-APPL-SN-432026			US-PATENT-APPL-SN-665209
N71-23234*	c 03	US-PATENT-APPL-SN-688807	N71-23443*	c 09	US-PATENT-CLASS-325-163	N71-23725*	c 14	US-PATENT-CLASS-73-133
		US-PATENT-CLASS-321-2			US-PATENT-3,417,332			US-PATENT-3,460,381
		US-PATENT-3,470,443			NASA-CASE-XLE-02823			NASA-CASE-XMF-05224
N71-23240*	c 14	US-PATENT-APPL-SN-508873	N71-23449*	c 03	US-PATENT-APPL-SN-491058	N71-23726*	c 14	NASA-CASE-XMF-05224
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-310-10			US-PATENT-APPL-SN-660842
		US-PATENT-3,407,304			US-PATENT-3,393,332			US-PATENT-CLASS-73-189
N71-23248*	c 17	NASA-CASE-XLA-00941	N71-23497*	c 01	US-PATENT-3,393,332	N71-23755*	c 14	US-PATENT-3,465,584
		US-PATENT-APPL-SN-508873			NASA-CASE-XLE-08569			NASA-CASE-XMF-04134
		US-PATENT-CLASS-250-227			US-PATENT-APPL-SN-641420			US-PATENT-APPL-SN-610723
N71-23249*	c 03	US-PATENT-3,407,304	N71-23497*	c 01	US-PATENT-CLASS-136-89	N71-23790*	c 14	US-PATENT-CLASS-73-4
		NASA-CASE-XLE-03629			US-PATENT-3,472,698			US-PATENT-3,472,059
		US-PATENT-APPL-SN-554950			NASA-CASE-XLA-01486			NASA-CASE-XAC-04885
N71-23254*	c 15	US-PATENT-CLASS-75-170	N71-23499*	c 06	US-PATENT-APPL-SN-484485	N71-23797*	c 14	US-PATENT-APPL-SN-573432
		US-PATENT-3,415,643			US-PATENT-CLASS-244-13			US-PATENT-CLASS-73-141
		NASA-CASE-XFR-05302			US-PATENT-3,392,936			US-PATENT-3,415,116
N71-23255*	c 15	US-PATENT-APPL-SN-685463	N71-23499*	c 06	US-PATENT-APPL-SN-456874	N71-23797*	c 14	NASA-CASE-XNP-06510
		US-PATENT-CLASS-85-7			US-PATENT-CLASS-44-77			US-PATENT-APPL-SN-562445
		US-PATENT-3,443,472			US-PATENT-3,393,059			US-PATENT-CLASS-250-203
N71-23256*	c 15	NASA-CASE-XMS-07487	N71-23500*	c 06	US-PATENT-3,393,059	N71-23798* #	c 15	US-PATENT-3,417,247
		US-PATENT-APPL-SN-580365			NASA-CASE-XNP-03250			NASA-CASE-XMF-02330
		US-PATENT-CLASS-244-83			US-PATENT-APPL-SN-485058			US-PATENT-APPL-SN-608944
N71-23257*	c 15	US-PATENT-3,409,252	N71-23525*	c 09	US-PATENT-CLASS-260-85.5	N71-23809*	c 15	US-PATENT-CLASS-219-130
		NASA-CASE-XMF-03290			US-PATENT-3,419,537			US-PATENT-3,469,609
		US-PATENT-APPL-SN-479353			NASA-CASE-XGS-02317			NASA-CASE-XAC-10019
N71-23267*	c 14	US-PATENT-CLASS-53-22	N71-23525*	c 09	US-PATENT-APPL-SN-576183	N71-23810*	c 15	US-PATENT-APPL-SN-686209
		US-PATENT-3,415,032			US-PATENT-CLASS-328-61			US-PATENT-CLASS-74-89.18
		NASA-CASE-XLE-04026			US-PATENT-3,464,018			US-PATENT-3,472,086
N71-23268*	c 14	US-PATENT-APPL-SN-617770	N71-23527*	c 06	NASA-CASE-XLE-01997	N71-23810*	c 15	NASA-CASE-XLE-05033
		US-PATENT-CLASS-13-26			US-PATENT-APPL-SN-427990			US-PATENT-APPL-SN-510474
		US-PATENT-3,470,304			US-PATENT-CLASS-23-230			US-PATENT-CLASS-252-12
N71-23269*	c 14	NASA-CASE-XLA-01907	N71-23543*	c 10	US-PATENT-3,472,625	N71-23811*	c 15	US-PATENT-3,466,243
		US-PATENT-APPL-SN-335441			NASA-CASE-XMS-00913			NASA-CASE-XNP-05297
		US-PATENT-CLASS-356-72			US-PATENT-APPL-SN-416945			US-PATENT-APPL-SN-640558

N71-23812*	c 15	US-PATENT-3,443,412 NASA-CASE-XMF-07808 US-PATENT-APPL-SN-684178 US-PATENT-CLASS-308-2 US-PATENT-3,463,563	N71-24232*	c 14	US-PATENT-3,434,855 NASA-CASE-XAC-04458 US-PATENT-APPL-SN-534975 US-PATENT-CLASS-73-400 US-PATENT-3,392,586	N71-24623*	c 05	US-PATENT-CLASS-324-77 US-PATENT-3,548,107 NASA-CASE-XMS-09635 US-PATENT-APPL-SN-586329 US-PATENT-CLASS-2-2.1 US-PATENT-3,516,091
N71-23815*	c 15	NASA-CASE-XMF-07069 US-PATENT-APPL-SN-672382 US-PATENT-CLASS-219-125 US-PATENT-3,469,068	N71-24233*	c 14	NASA-CASE-XGS-04478 US-PATENT-APPL-SN-566717 US-PATENT-CLASS-73-88.5 US-PATENT-3,460,378	N71-24624*	c 07	NASA-CASE-GSC-10131-1 US-PATENT-APPL-SN-754055 US-PATENT-CLASS-340-172.5 US-PATENT-3,546,684
N71-23816*	c 15	NASA-CASE-XLE-03803 US-PATENT-APPL-SN-505765 US-PATENT-CLASS-220-9 US-PATENT-3,392,865	N71-24234*	c 14	NASA-CASE-XMF-10968 US-PATENT-APPL-SN-644447 US-PATENT-CLASS-73-15.6 US-PATENT-3,469,437	N71-24625*	c 07	NASA-CASE-XMS-09610 US-PATENT-APPL-SN-766170 US-PATENT-CLASS-343-113 US-PATENT-3,540,054
N71-23817*	c 15	NASA-CASE-XLE-06773 US-PATENT-APPL-SN-646124 US-PATENT-CLASS-72-467 US-PATENT-3,469,436	N71-24276*	c 33	NASA-CASE-XLA-02059 US-PATENT-APPL-SN-576182 US-PATENT-CLASS-165-12 US-PATENT-3,406,742	N71-24633*	c 08	NASA-CASE-NPO-10567 US-PATENT-APPL-SN-679055 US-PATENT-CLASS-235-153 US-PATENT-3,517,171
N71-23828*	c 17	NASA-CASE-XMF-02303 US-PATENT-APPL-SN-453229 US-PATENT-CLASS-148-6.20 US-PATENT-3,416,975	N71-24285*	c 32	NASA-CASE-XMF-02392 US-PATENT-APPL-SN-596735 US-PATENT-CLASS-73-49.2 US-PATENT-3,399,574	N71-24650*	c 08	NASA-CASE-NPO-10150 US-PATENT-APPL-SN-660843 US-PATENT-CLASS-340-347 US-PATENT-3,537,103
N71-23912*	c 31	NASA-CASE-XMF-05941 US-PATENT-APPL-SN-653277 US-PATENT-CLASS-244-1 US-PATENT-3,443,773	N71-24315*	c 31	NASA-CASE-XLA-04901 US-PATENT-APPL-SN-586325 US-PATENT-CLASS-244-1 US-PATENT-3,405,887	N71-24679*	c 15	NASA-CASE-XNP-10475 US-PATENT-APPL-SN-763868 US-PATENT-CLASS-72-369 US-PATENT-3,546,917
N71-23968*	c 28	NASA-CASE-XLE-04857 US-PATENT-APPL-SN-621742 US-PATENT-CLASS-239-127.1 US-PATENT-3,460,759	N71-24321*	c 28	NASA-CASE-XNP-03692 US-PATENT-APPL-SN-640787 US-PATENT-CLASS-60-263 US-PATENT-3,443,384	N71-24681*	c 03	NASA-CASE-XLE-08569-2 US-PATENT-APPL-SN-829825 US-PATENT-CLASS-29-572 US-PATENT-3,541,679
N71-23971*	c 32	NASA-CASE-XAC-05632 US-PATENT-APPL-SN-568355 US-PATENT-CLASS-244-77 US-PATENT-3,412,961	N71-24583*	c 07	NASA-CASE-NPO-10096 US-PATENT-APPL-SN-730700 US-PATENT-CLASS-329-140 US-PATENT-3,533,001	N71-24692*	c 12	NASA-CASE-XFR-02007 US-PATENT-APPL-SN-378080 US-PATENT-CLASS-73-389 US-PATENT-3,273,399
N71-23976*	c 23	NASA-CASE-XLA-01987 US-PATENT-APPL-SN-542713 US-PATENT-CLASS-346-107 US-PATENT-3,392,403	N71-24595*	c 09	NASA-CASE-GSC-10021-1 US-PATENT-APPL-SN-790420 US-PATENT-CLASS-343-7.5 US-PATENT-3,540,405	N71-24693*	c 14	NASA-CASE-XMF-04415 US-PATENT-APPL-SN-644446 US-PATENT-CLASS-33-174 US-PATENT-3,360,864
N71-24035*	c 31	NASA-CASE-XLA-01027 US-PATENT-APPL-SN-494283 US-PATENT-CLASS-52-272 US-PATENT-3,416,274	N71-24596*	c 09	NASA-CASE-XNP-01306-2 US-PATENT-APPL-SN-684083 US-PATENT-CLASS-328-133 US-PATENT-3,509,475	N71-24694*	c 15	NASA-CASE-GSC-10306-1 US-PATENT-APPL-SN-789278 US-PATENT-CLASS-248-358 US-PATENT-3,537,672
N71-24042*	c 15	NASA-CASE-XNP-04731 US-PATENT-APPL-SN-534966 US-PATENT-CLASS-103-48 US-PATENT-3,367,271	N71-24597*	c 09	NASA-CASE-ARC-10132-1 US-PATENT-APPL-SN-759460 US-PATENT-CLASS-73-398 US-PATENT-3,545,275	N71-24695*	c 15	NASA-CASE-XNP-06936 US-PATENT-APPL-SN-640786 US-PATENT-CLASS-318-382 US-PATENT-3,487,281
N71-24043*	c 15	NASA-CASE-XKS-03338 US-PATENT-APPL-SN-547072 US-PATENT-CLASS-89-1.806 US-PATENT-3,415,156	N71-24599*	c 15	NASA-CASE-MS-12052-1 US-PATENT-APPL-SN-770371 US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186 US-PATENT-3,545,725	N71-24696*	c 15	NASA-CASE-NPO-10173 US-PATENT-APPL-SN-796360 US-PATENT-CLASS-310-101 US-PATENT-3,535,570
N71-24044*	c 15	NASA-CASE-XMF-06888 US-PATENT-APPL-SN-591000 US-PATENT-CLASS-62-40 US-PATENT-3,415,069	N71-24600*	c 15	NASA-CASE-XGS-08718 US-PATENT-APPL-SN-785611 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24717*	c 09	NASA-CASE-XMF-08804 US-PATENT-APPL-SN-683606 US-PATENT-CLASS-324-181 US-PATENT-3,543,159
N71-24045*	c 15	NASA-CASE-XGS-04548 US-PATENT-APPL-SN-672383 US-PATENT-CLASS-74-100 US-PATENT-3,460,397	N71-24601*	c 03	NASA-CASE-XNP-04758 US-PATENT-APPL-SN-557861 US-PATENT-CLASS-320-17 US-PATENT-3,413,536	N71-24718*	c 03	NASA-CASE-MS-10960-1 US-PATENT-APPL-SN-751198 US-PATENT-CLASS-204-305 US-PATENT-3,547,801
N71-24046*	c 15	NASA-CASE-XLE-10337 US-PATENT-APPL-SN-594633 US-PATENT-CLASS-252-26 US-PATENT-3,391,080	N71-24602*	c 05	NASA-CASE-XKS-10804 US-PATENT-APPL-SN-691909 US-PATENT-CLASS-35-17 US-PATENT-3,508,347	N71-24719*	c 03	NASA-CASE-GSC-10487-1 US-PATENT-APPL-SN-828983 US-PATENT-CLASS-320-39 US-PATENT-3,541,422
N71-24047*	c 15	NASA-CASE-XGS-03120 US-PATENT-APPL-SN-485958 US-PATENT-CLASS-156-3 US-PATENT-3,470,043	N71-24603*	c 06	NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24725*	c 23	NASA-CASE-GSC-10188-1 US-PATENT-APPL-SN-791888 US-PATENT-CLASS-62-384 US-PATENT-3,545,226
N71-24074*	c 16	NASA-CASE-XLA-03375 US-PATENT-APPL-SN-512562 US-PATENT-CLASS-356-104 US-PATENT-3,446,558	N71-24607*	c 06	NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24728*	c 05	NASA-CASE-MS-12243-1 US-PATENT-APPL-SN-857445 US-PATENT-CLASS-244-1 US-PATENT-3,537,668
N71-24142*	c 17	NASA-CASE-XLE-06969 US-PATENT-APPL-SN-655675 US-PATENT-CLASS-148-126 US-PATENT-3,463,679	N71-24612*	c 07	NASA-CASE-XMF-06092 US-PATENT-APPL-SN-550088 US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318	N71-24729*	c 05	NASA-CASE-MS-13282-1 US-PATENT-APPL-SN-8498 US-PATENT-CLASS-128-2.1 US-PATENT-3,548,812
N71-24145*	c 33	NASA-CASE-XLE-03432 US-PATENT-APPL-SN-559349 US-PATENT-CLASS-13-35 US-PATENT-3,409,730	N71-24613*	c 07	NASA-CASE-NPO-10851 US-PATENT-APPL-SN-805406 US-PATENT-CLASS-325-325 US-PATENT-3,551,816	N71-24730*	c 05	NASA-CASE-XMS-09637-1 US-PATENT-APPL-SN-785710 US-PATENT-CLASS-2-2.1 US-PATENT-3,537,107
N71-24147*	c 05	NASA-CASE-XMS-10269 US-PATENT-APPL-SN-590158 US-PATENT-CLASS-165-46 US-PATENT-3,425,486	N71-24614*	c 07	NASA-CASE-XKS-09340 US-PATENT-APPL-SN-666555 US-PATENT-CLASS-343-703 US-PATENT-3,540,056	N71-24736*	c 28	NASA-CASE-XLE-03157 US-PATENT-APPL-SN-591014 US-PATENT-CLASS-60-240 US-PATENT-3,408,816
N71-24164*	c 15	NASA-CASE-XLA-01494 US-PATENT-APPL-SN-499122 US-PATENT-CLASS-156-545 US-PATENT-3,416,988	N71-24618*	c 09	NASA-CASE-FRC-10029 US-PATENT-APPL-SN-760389 US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105	N71-24738*	c 05	NASA-CASE-ARC-10100-1 US-PATENT-APPL-SN-797058 US-PATENT-CLASS-128-24 US-PATENT-CLASS-128-25 US-PATENT-3,550,585
N71-24170*	c 16	NASA-CASE-XLA-04295 US-PATENT-APPL-SN-546149 US-PATENT-CLASS-356-107 US-PATENT-3,468,609	N71-24621*	c 07	NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24739*	c 06	NASA-CASE-ARC-10098-1 US-PATENT-APPL-SN-702967 US-PATENT-CLASS-260-2.5 US-PATENT-3,549,564
N71-24183*	c 18	NASA-CASE-XGS-04799 US-PATENT-APPL-SN-452944 US-PATENT-CLASS-106-84 US-PATENT-3,416,939	N71-24622*	c 07	NASA-CASE-NPO-10388 US-PATENT-APPL-SN-725432 US-PATENT-CLASS-179-15	N71-24740*	c 06	NASA-CASE-XMF-03074 US-PATENT-APPL-SN-593595 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,971
N71-24184*	c 18	NASA-CASE-XNP-02139 US-PATENT-APPL-SN-430777 US-PATENT-CLASS-106-84				N71-24741*	c 07	NASA-CASE-NPO-10118

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MSC-12209	N71-24911*	c 17	NASA-CASE-XLE-04946
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039			US-PATENT-APPL-SN-605093
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-CLASS-118-308
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-3,472,202
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617	N71-24934*	c 18	NASA-CASE-NPO-10051
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993			US-PATENT-APPL-SN-711898
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-CLASS-73-38
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-3,548,633
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169	N71-24948*	c 21	NASA-CASE-ERC-10090
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733			US-PATENT-APPL-SN-811542
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-CLASS-343-112
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-3,550,129
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1	N71-24964*	c 11	NASA-CASE-NPO-10141
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006			US-PATENT-APPL-SN-673227
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-CLASS-62-55.5
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-3,443,390
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253	N71-24984*	c 15	NASA-CASE-MFS-14971
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622			US-PATENT-APPL-SN-827579
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-CLASS-74-468
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-3,541,875
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195	N71-24985*	c 11	NASA-CASE-KSC-10126
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595			US-PATENT-APPL-SN-845973
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-CLASS-73-15
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-3,545,252
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010	N71-25139*	c 10	NASA-CASE-MFS-10068
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937			US-PATENT-APPL-SN-700541
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-CLASS-321-9
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-3,487,288
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966	N71-25213*	c 28	NASA-CASE-GSC-10709-1
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968			US-PATENT-APPL-SN-791288
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-CLASS-60-202
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-3,545,208
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463			US-PATENT-APPL-SN-795217
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-CLASS-161-161
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-220-9
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-52-249
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-3,540,615
		US-PATENT-CLASS-165-138	N71-24868*	c 23	NASA-CASE-ERC-10001	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099			US-PATENT-APPL-SN-845974
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-CLASS-165-104
N71-24808*	c 09	NASA-CASE-XNP-08880	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-105
		US-PATENT-APPL-SN-605094			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-165-133
		US-PATENT-CLASS-333-98			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-378
		US-PATENT-3,416,106			US-PATENT-3,540,942			US-PATENT-CLASS-219-530
N71-24809*	c 14	NASA-CASE-XNP-08961	N71-24876*	c 33	NASA-CASE-XNP-05524			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-661170			US-PATENT-APPL-SN-250567			US-PATENT-3,548,930
		US-PATENT-CLASS-250-84			US-PATENT-CLASS-165-2	N71-25360*	c 32	NASA-CASE-XLA-08530
		US-PATENT-3,487,216			US-PATENT-3,270,802			US-PATENT-APPL-SN-808577
N71-24813*	c 31	NASA-CASE-XAC-06029-1	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-CLASS-73-90
		US-PATENT-APPL-SN-588651			US-PATENT-APPL-SN-649076			US-PATENT-3,546,931
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-235-155	N71-25434*	c 31	NASA-CASE-MSC-13047-1
		US-PATENT-3,540,048			US-PATENT-3,535,497			US-PATENT-APPL-SN-850586
N71-24828*	c 16	NASA-CASE-XAC-10770-1	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-113
		US-PATENT-APPL-SN-690997			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-138
		US-PATENT-CLASS-356-28			US-PATENT-CLASS-235-92			US-PATENT-3,547,376
		US-PATENT-3,547,540			US-PATENT-3,541,312	N71-25490*	c 26	NASA-CASE-NPO-10088
N71-24830*	c 17	NASA-CASE-XNP-04148	N71-24892*	c 09	NASA-CASE-NPO-10716			US-PATENT-APPL-SN-760927
		US-PATENT-APPL-SN-536210			US-PATENT-APPL-SN-851394			US-PATENT-CLASS-73-141
		US-PATENT-CLASS-204-38			US-PATENT-CLASS-307-104			US-PATENT-3,537,305
		US-PATENT-3,472,742			US-PATENT-CLASS-317-123	N71-25555*	c 24	NASA-CASE-XNP-09469
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-148.5			US-PATENT-APPL-SN-645573
		US-PATENT-APPL-SN-775072			US-PATENT-3,549,955			US-PATENT-CLASS-204-168
		US-PATENT-CLASS-330-4			US-PATENT-3,486,123	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-3,486,123	N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-782956
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56			US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-3,567,861
		US-PATENT-3,550,034			NASA-CASE-XLA-07473	N71-25866*	c 09	NASA-CASE-ARC-10003-1
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935			US-PATENT-APPL-SN-717822
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265			US-PATENT-CLASS-178-66
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-CLASS-179-100.2
		US-PATENT-3,360,972	N71-24834*	c 15	NASA-CASE-ERC-10034			US-PATENT-3,549,799
		NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			NASA-CASE-XGS-05180
		US-PATENT-APPL-SN-605096			US-PATENT-CLASS-250-43.5	N71-25881*	c 18	US-PATENT-APPL-SN-721607
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882			US-PATENT-CLASS-260-37
		US-PATENT-3,460,379	N71-24835*	c 15	NASA-CASE-XLA-03538			US-PATENT-3,567,677
		NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83			US-PATENT-APPL-SN-785546
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779			US-PATENT-CLASS-331-113
		US-PATENT-CLASS-128-275			NASA-CASE-MFS-20395			US-PATENT-3,559,096
		US-PATENT-3,540,449			US-PATENT-APPL-SN-830715	N71-25892*	c 14	NASA-CASE-XLA-04555-1
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-CLASS-285-314			US-PATENT-APPL-SN-594584
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-317			US-PATENT-CLASS-148-13
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-38			US-PATENT-3,468,727
		US-PATENT-3,541,825			US-PATENT-CLASS-285-406	N71-25899*	c 10	NASA-CASE-LEW-10345-1
N71-24840*	c 07	NASA-CASE-NPO-10649			US-PATENT-3,545,792			US-PATENT-APPL-SN-805298
		US-PATENT-APPL-SN-795182	N71-24904*	c 09	NASA-CASE-MFS-20385			US-PATENT-CLASS-137-81.5
		US-PATENT-CLASS-325-113			US-PATENT-APPL-SN-853716			US-PATENT-CLASS-235-201
		US-PATENT-3,541,450			US-PATENT-CLASS-310-10			
N71-24841*	c 09	NASA-CASE-XNP-09771			US-PATENT-3,541,361			

N71-25900*	c 10	US-PATENT-3,568,702	N71-26136*	c 14	US-PATENT-3,564,401	N71-26293*	c 05	US-PATENT-APPL-SN-719870
		NASA-CASE-ERC-10032			NASA-CASE-XLA-01782			US-PATENT-CLASS-325-67
		US-PATENT-APPL-SN-757857			US-PATENT-APPL-SN-576792			US-PATENT-3,553,586
		US-PATENT-CLASS-333-30			US-PATENT-CLASS-73-15.6			NASA-CASE-XFR-07658-1
N71-25901*	c 14	US-PATENT-CLASS-333-72	N71-26137*	c 14	US-PATENT-3,472,060	N71-26294*	c 15	US-PATENT-APPL-SN-586324
		US-PATENT-3,568,103			NASA-CASE-LAR-10305			US-PATENT-CLASS-128-2.06
		NASA-CASE-XLA-02810			US-PATENT-APPL-SN-811037			US-PATENT-3,426,746
		US-PATENT-APPL-SN-764252			US-PATENT-CLASS-324-0.5			NASA-CASE-XNP-02862-1
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-324-58.5			US-PATENT-APPL-SN-556830
N71-25903*	c 17	US-PATENT-CLASS-250-83.3	N71-26142*	c 10	US-PATENT-3,562,631	N71-26312*	c 15	US-PATENT-CLASS-277-13
		US-PATENT-CLASS-340-233			NASA-CASE-NPO-10302			US-PATENT-3,468,548
		US-PATENT-CLASS-340-285			US-PATENT-APPL-SN-848811			NASA-CASE-XNP-01263-2
		US-PATENT-3,569,710			US-PATENT-CLASS-343-768			US-PATENT-APPL-SN-718279
N71-25914*	c 16	NASA-CASE-XLA-08966-1	N71-26145*	c 15	US-PATENT-3,553,704	N71-26326*	c 10	US-PATENT-CLASS-287-189.365
		US-PATENT-APPL-SN-570678			NASA-CASE-FRC-10005			US-PATENT-3,481,638
		US-PATENT-CLASS-204-33			US-PATENT-APPL-SN-756266			NASA-CASE-NPO-10143
		US-PATENT-3,468,765			US-PATENT-CLASS-33-189			US-PATENT-APPL-SN-692331
N71-25917*	c 10	US-PATENT-CLASS-340-233	N71-26148*	c 15	US-PATENT-3,562,919	N71-26331*	c 10	US-PATENT-CLASS-58-24
		US-PATENT-CLASS-340-285			NASA-CASE-XMF-05114-2			US-PATENT-3,472,019
		US-PATENT-3,569,956			US-PATENT-APPL-SN-837377			NASA-CASE-XNP-10854
		NASA-CASE-NPO-10595			US-PATENT-CLASS-72-56			US-PATENT-APPL-SN-668248
N71-25929*	c 06	US-PATENT-APPL-SN-771760	N71-26153*	c 18	US-PATENT-3,555,867	N71-26333*	c 05	US-PATENT-CLASS-330-31
		US-PATENT-CLASS-340-347			NASA-CASE-XLE-03940			US-PATENT-3,482,179
		US-PATENT-3,569,956			US-PATENT-APPL-SN-539255			NASA-CASE-XMS-09652-1
		NASA-CASE-NPO-10596			US-PATENT-CLASS-148-126			US-PATENT-APPL-SN-618969
N71-25950*	c 10	US-PATENT-3,472,709	N71-26154*	c 16	US-PATENT-3,472,709	N71-26334*	c 10	US-PATENT-CLASS-2-6
		US-PATENT-APPL-SN-709399			NASA-CASE-ERC-10020			US-PATENT-3,473,165
		US-PATENT-CLASS-350-3.5			US-PATENT-APPL-SN-709399			NASA-CASE-XLA-02619
		US-PATENT-3,540,790			US-PATENT-CLASS-350-3.5			US-PATENT-APPL-SN-796691
N71-25975*	c 15	US-PATENT-CLASS-317-153	N71-26161*	c 14	US-PATENT-CLASS-340-235	N71-26339*	c 10	US-PATENT-CLASS-317-DIG.3
		US-PATENT-CLASS-340-235			NASA-CASE-LAR-10373-1			US-PATENT-CLASS-317-153
		US-PATENT-3,575,641			US-PATENT-APPL-SN-761007			US-PATENT-CLASS-340-235
		NASA-CASE-XMS-10660-1			US-PATENT-CLASS-260-2.5			US-PATENT-3,575,641
N71-25999*	c 09	US-PATENT-APPL-SN-797056	N71-26162*	c 15	US-PATENT-CLASS-260-2.5	N71-26346*	c 15	US-PATENT-APPL-SN-605091
		US-PATENT-CLASS-24-205.17			US-PATENT-3,481,887			US-PATENT-CLASS-72-61
		US-PATENT-3,469,289			NASA-CASE-XLA-08254			US-PATENT-3,461,700
		NASA-CASE-XGS-05290			US-PATENT-APPL-SN-867843			NASA-CASE-NPO-10185
N71-26000*	c 09	US-PATENT-CLASS-73-432	N71-26173*	c 28	US-PATENT-CLASS-73-12	N71-26374*	c 10	US-PATENT-APPL-SN-723805
		US-PATENT-CLASS-73-79			US-PATENT-CLASS-73-12			US-PATENT-CLASS-73-432
		US-PATENT-3,575,641			US-PATENT-CLASS-73-79			US-PATENT-3,472,080
		US-PATENT-APPL-SN-754019			US-PATENT-3,576,127			NASA-CASE-XLE-05641-1
N71-26002*	c 09	US-PATENT-CLASS-310-168	N71-26181*	c 07	US-PATENT-3,576,127	N71-26414*	c 10	US-PATENT-APPL-SN-605091
		US-PATENT-CLASS-310-254			NASA-CASE-MS-15474-1			US-PATENT-CLASS-72-61
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-878731			US-PATENT-3,461,700
		US-PATENT-CLASS-318-254			US-PATENT-CLASS-24-263			NASA-CASE-GSC-11367
N71-26084*	c 03	US-PATENT-3,569,804	N71-26182*	c 09	US-PATENT-3,564,564	N71-26475*	c 10	US-PATENT-APPL-SN-675238
		NASA-CASE-XNP-08567			NASA-CASE-LEW-10689-1			US-PATENT-CLASS-331-18
		US-PATENT-APPL-SN-640783			US-PATENT-APPL-SN-830978			US-PATENT-3,484,712
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-60-202			NASA-CASE-XLA-05541
N71-26085*	c 10	US-PATENT-3,466,459	N71-26185*	c 15	US-PATENT-3,552,125	N71-26477*	c 10	US-PATENT-APPL-SN-700986
		NASA-CASE-XMS-04213-1			NASA-CASE-MS-12223-1			US-PATENT-CLASS-73-301
		US-PATENT-APPL-SN-607484			US-PATENT-APPL-SN-839941			US-PATENT-3,473,379
		US-PATENT-CLASS-128-2.1			US-PATENT-CLASS-179-1			NASA-CASE-XMF-04958-1
N71-26092*	c 09	US-PATENT-3,468,303	N71-26189*	c 15	US-PATENT-3,555,192	N71-26481*	c 10	US-PATENT-APPL-SN-448365
		NASA-CASE-LEW-11358			NASA-CASE-NPO-10625			US-PATENT-CLASS-321-69
		US-PATENT-APPL-SN-787906			US-PATENT-APPL-SN-856415			US-PATENT-3,434,037
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-313-236			NASA-CASE-NPO-10003
N71-26100*	c 18	US-PATENT-3,554,806	N71-26199*	c 14	US-PATENT-CLASS-60-23	N71-26493*	c 10	US-PATENT-CLASS-330-13
		NASA-CASE-GSC-10735-1			US-PATENT-3,562,575			US-PATENT-3,461,393
		US-PATENT-APPL-SN-863963			NASA-CASE-MFS-14711			NASA-CASE-XGS-04224
		US-PATENT-CLASS-321-2			US-PATENT-APPL-SN-774266			US-PATENT-APPL-SN-568364
N71-26102*	c 07	US-PATENT-3,559,031	N71-26206*	c 23	US-PATENT-CLASS-55-75	N71-26497*	c 14	US-PATENT-CLASS-340-174
		NASA-CASE-NXP-07477			US-PATENT-3,557,534			US-PATENT-3,483,535
		US-PATENT-APPL-SN-605098			NASA-CASE-XLE-09527-2			NASA-CASE-XNP-01466
		US-PATENT-CLASS-318-258			US-PATENT-APPL-SN-840870			US-PATENT-APPL-SN-487940
N71-26110*	c 02	US-PATENT-3,501,684	N71-26243*	c 15	US-PATENT-CLASS-308-187	N71-26531*	c 10	US-PATENT-CLASS-340-174
		NASA-CASE-XLA-04251			US-PATENT-3,561,828			US-PATENT-3,461,437
		US-PATENT-APPL-SN-657742			NASA-CASE-NPO-10691			NASA-CASE-XMF-03844-1
		US-PATENT-CLASS-117-104			US-PATENT-APPL-SN-816988			US-PATENT-APPL-SN-601229
N71-26133*	c 09	US-PATENT-3,553,002	N71-26244*	c 14	US-PATENT-CLASS-73-61	N71-26537*	c 31	US-PATENT-CLASS-95-44
		NASA-CASE-NPO-10231			US-PATENT-3,566,676			US-PATENT-3,472,140
		US-PATENT-APPL-SN-701767			NASA-CASE-XGS-08269			NASA-CASE-XNP-09701
		US-PATENT-CLASS-343-786			US-PATENT-APPL-SN-787393			US-PATENT-APPL-SN-584015
N71-26134*	c 15	US-PATENT-3,534,376	N71-26266*	c 14	US-PATENT-CLASS-356-76	N71-26544*	c 10	US-PATENT-CLASS-250-83.3
		NASA-CASE-XNP-06611			US-PATENT-3,554,647			US-PATENT-3,461,290
		US-PATENT-APPL-SN-593607			NASA-CASE-MS-10959			NASA-CASE-GSC-10413
		US-PATENT-CLASS-178-6.6			US-PATENT-APPL-SN-725719			US-PATENT-APPL-SN-789043
N71-26135*	c 10	US-PATENT-3,474,192	N71-26285*	c 18	US-PATENT-CLASS-188-1	N71-26546*	c 12	US-PATENT-CLASS-317-20
		NASA-CASE-XNP-04623			US-PATENT-3,420,338			US-PATENT-CLASS-317-33
		US-PATENT-APPL-SN-510150			NASA-CASE-XMS-06497			US-PATENT-3,555,361
		US-PATENT-CLASS-340-146.1			US-PATENT-APPL-SN-617778			NASA-CASE-GSC-10556-1
N71-26136*	c 02	US-PATENT-3,474,413	N71-26292*	c 07	US-PATENT-CLASS-324-115	N71-26577*	c 10	NASA-CASE-GSC-10557-1
		NASA-CASE-LAR-10249-1			US-PATENT-3,464,012			US-PATENT-APPL-SN-808193
		US-PATENT-APPL-SN-835060			NASA-CASE-XNP-08830			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-244-42			US-PATENT-APPL-SN-632165			US-PATENT-CLASS-308-1
N71-26137*	c 09	US-PATENT-3,576,301	N71-26299*	c 14	US-PATENT-CLASS-324-0.5	N71-26577*	c 10	US-PATENT-CLASS-74-5.12
		NASA-CASE-MFS-20075			US-PATENT-3,474,328			US-PATENT-3,554,466
		US-PATENT-APPL-SN-835059			NASA-CASE-MS-12109			NASA-CASE-NPO-10344
		US-PATENT-CLASS-317-101			US-PATENT-APPL-SN-889376			US-PATENT-APPL-SN-732921
N71-26138*	c 15	US-PATENT-CLASS-339-17	N71-26343*	c 18	US-PATENT-CLASS-112-402	N71-26577*	c 10	US-PATENT-CLASS-340-347
		US-PATENT-3,575,638			US-PATENT-CLASS-2-275			US-PATENT-3,566,396
		NASA-CASE-XKS-07953			US-PATENT-CLASS-2-81			NASA-CASE-FRC-10022
		US-PATENT-APPL-SN-725405			US-PATENT-3,563,198			US-PATENT-APPL-SN-763729
N71-26139*	c 14	US-PATENT-CLASS-51-170	N71-26344*	c 14	US-PATENT-CLASS-324-0.5	N71-26577*	c 10	US-PATENT-CLASS-73-194
		US-PATENT-3,553,904			NASA-CASE-HQN-10541-1			US-PATENT-3,555,898
		NASA-CASE-XAC-03740			US-PATENT-APPL-SN-494739			NASA-CASE-NPO-10214
		US-PATENT-APPL-SN-480211			US-PATENT-CLASS-350-96			US-PATENT-APPL-SN-704299
N71-26140*	c 07	US-PATENT-CLASS-324-43	N71-26345*	c 07	US-PATENT-3,556,634	N71-26577*	c 10	US-PATENT-CLASS-325-4
		NASA-CASE-XAC-03740			NASA-CASE-XKS-10543			US-PATENT-CLASS-325-4
		US-PATENT-APPL-SN-480211			NASA-CASE-XKS-10543			US-PATENT-CLASS-325-4
		US-PATENT-CLASS-324-43			NASA-CASE-XKS-10543			US-PATENT-CLASS-325-4

N71-26579*	c 07	US-PATENT-3,566,268 NASA-CASE-XMS-06740-1 US-PATENT-APPL-SN-554277 US-PATENT-CLASS-178-6 US-PATENT-3,470,313	N71-26787*	c 09	US-PATENT-APPL-SN-804172 US-PATENT-CLASS-313-63 US-PATENT-CLASS-315-111 US-PATENT-CLASS-60-202 US-PATENT-3,576,107 NASA-CASE-XKS-05932 US-PATENT-APPL-SN-752729 US-PATENT-CLASS-240-11.2 US-PATENT-CLASS-240-11.4 US-PATENT-CLASS-240-51.11 US-PATENT-CLASS-313-22 US-PATENT-3,564,234	N71-27094*	c 28	NASA-CASE-GSC-10710-1 US-PATENT-APPL-SN-828909 US-PATENT-CLASS-73-117.4 US-PATENT-3,572,104 NASA-CASE-MFS-20325 US-PATENT-APPL-SN-840176 US-PATENT-CLASS-244-1 US-PATENT-3,572,610
N71-26611*	c 15	NASA-CASE-MSC-11817-1 US-PATENT-APPL-SN-7668 US-PATENT-CLASS-165-44 US-PATENT-CLASS-165-86 US-PATENT-CLASS-188-88 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-57 US-PATENT-3,563,307	N71-26788*	c 14	NASA-CASE-MFS-20240 US-PATENT-APPL-SN-825259 US-PATENT-CLASS-356-203 US-PATENT-3,563,668	N71-27126* #	c 10	NASA-CASE-LEW-10233 US-PATENT-APPL-SN-750787 US-PATENT-CLASS-307-253 US-PATENT-CLASS-307-300 US-PATENT-3,566,158
N71-26626*	c 10	NASA-CASE-GSC-10891-1 US-PATENT-APPL-SN-568620 US-PATENT-CLASS-307-53 US-PATENT-3,480,789	N71-27001*	c 09	NASA-CASE-XGS-11177 US-PATENT-APPL-SN-828921 US-PATENT-CLASS-317-33 US-PATENT-CLASS-317-9 US-PATENT-3,571,656	N71-27135*	c 15	NASA-CASE-HQN-10541-2 US-PATENT-APPL-SN-822088 US-PATENT-CLASS-219-121 US-PATENT-CLASS-331-94.5 US-PATENT-3,571,555
N71-26627*	c 14	NASA-CASE-MFS-14017 US-PATENT-APPL-SN-762956 US-PATENT-CLASS-248-183 US-PATENT-CLASS-308-9 US-PATENT-3,559,937	N71-27005*	c 14	NASA-CASE-MFS-20261 US-PATENT-APPL-SN-845990 US-PATENT-CLASS-1 US-PATENT-CLASS-141-258 US-PATENT-CLASS-222-137 US-PATENT-CLASS-222-49 US-PATENT-3,568,885	N71-27136*	c 10	NASA-CASE-GSC-10065-1 US-PATENT-APPL-SN-808462 US-PATENT-CLASS-318-571 US-PATENT-CLASS-318-653 US-PATENT-3,568,028
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		US-PATENT-CLASS-340-174		US-PATENT-CLASS-29-421			US-PATENT-CLASS-29-278R	
		US-PATENT-3,394,359		US-PATENT-3,583,058			US-PATENT-CLASS-294-15	
N71-28926*	c 09	NASA-CASE-XMS-03542	N71-29032*	c 15	NASA-CASE-XMF-05899		US-PATENT-CLASS-339-17R	
		US-PATENT-APPL-SN-482952		US-PATENT-APPL-SN-752946			US-PATENT-CLASS-81-3R	
		US-PATENT-CLASS-307-263		US-PATENT-CLASS-117-212			US-PATENT-3,583,744	
		US-PATENT-3,364,366		US-PATENT-3,576,669	N71-29134*	c 14	NASA-CASE-MFS-11204	
N71-28928*	c 28	NASA-CASE-XNP-00816	N71-29033*	c 08	NASA-CASE-GSC-10554-1		US-PATENT-APPL-SN-845991	
		US-PATENT-APPL-SN-235588		US-PATENT-APPL-SN-828984			US-PATENT-CLASS-73-1R	
		US-PATENT-CLASS-253-77		US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-73-304C	
		US-PATENT-3,202,398		US-PATENT-CLASS-235-150.2			US-PATENT-3,578,755	
N71-28929*	c 27	NASA-CASE-XNP-00650		US-PATENT-CLASS-235-150.27	N71-29135*	c 10	NASA-CASE-GSC-10564	
		US-PATENT-APPL-SN-271823		US-PATENT-CLASS-235-151.1			US-PATENT-APPL-SN-292596	
		US-PATENT-CLASS-60-39.48		US-PATENT-3,578,957			US-PATENT-CLASS-340-174	
		US-PATENT-3,170,295	N71-29034*	c 08	NASA-CASE-NPO-11088		US-PATENT-3,348,218	
N71-28933*	c 14	NASA-CASE-XLA-08913		US-PATENT-APPL-SN-887701	N71-29136*	c 15	NASA-CASE-XLA-00013	
		US-PATENT-APPL-SN-865109		US-PATENT-CLASS-307-207			US-PATENT-APPL-SN-579121	
		US-PATENT-CLASS-204-263		US-PATENT-CLASS-307-222			US-PATENT-CLASS-308-177	
		US-PATENT-3,574,084		US-PATENT-CLASS-328-167			US-PATENT-2,903,307	
N71-28935*	c 14	NASA-CASE-LAR-10686		US-PATENT-CLASS-328-44	N71-29137*	c 17	NASA-CASE-XNP-04339	
		US-PATENT-APPL-SN-280362		US-PATENT-3,579,122			US-PATENT-APPL-SN-451596	
		US-PATENT-CLASS-226-58	N71-29035*	c 09	NASA-CASE-LEW-10155-1		US-PATENT-CLASS-264-111	
		US-PATENT-3,298,582		US-PATENT-APPL-SN-889387			US-PATENT-3,413,393	
N71-28936*	c 15	NASA-CASE-XMS-10993		US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041	
		US-PATENT-APPL-SN-660573		US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478	
		US-PATENT-CLASS-244-1		US-PATENT-3,579,168			US-PATENT-CLASS-307-234	
		US-PATENT-3,389,877	N71-29040*	c 18	NASA-CASE-XLE-10910		US-PATENT-CLASS-307-265	
N71-28937*	c 15	NASA-CASE-XNP-01855		US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106	
		US-PATENT-APPL-SN-408435		US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58	
		US-PATENT-CLASS-285-45		US-PATENT-3,573,996			US-PATENT-CLASS-332-10	
		US-PATENT-3,219,365	N71-29041*	c 14	NASA-CASE-XLA-10402		US-PATENT-CLASS-332-9R	
N71-28951*	c 15	NASA-CASE-XNP-02278		US-PATENT-APPL-SN-762935			US-PATENT-3,579,146	
		US-PATENT-APPL-SN-11853		US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788	
		US-PATENT-CLASS-60-35.55		US-PATENT-3,574,462			US-PATENT-APPL-SN-874732	
		US-PATENT-3,132,479	N71-29044*	c 03	NASA-CASE-XMS-02063		US-PATENT-CLASS-307-215	
N71-28952*	c 15	NASA-CASE-XAC-00001		US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247	
		US-PATENT-APPL-SN-612568		US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265	
		US-PATENT-CLASS-318-31		US-PATENT-3,382,105			US-PATENT-CLASS-307-273	
		US-PATENT-2,837,706	N71-29046*	c 33	NASA-CASE-XHQ-03673		US-PATENT-CLASS-307-294	
N71-28958*	c 14	NASA-CASE-XNP-02792		US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207	
		US-PATENT-APPL-SN-262596		US-PATENT-CLASS-165-86			US-PATENT-3,578,988	
		US-PATENT-CLASS-219-413		US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035	
		US-PATENT-3,197,616	N71-29049*	c 23	NASA-CASE-XNP-06503		US-PATENT-APPL-SN-575291	
N71-28959*	c 15	NASA-CASE-XNP-01848		US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37	
		US-PATENT-APPL-SN-359532		US-PATENT-CLASS-335-216			US-PATENT-2,926,123	
		US-PATENT-CLASS-64-27		US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027	
		US-PATENT-3,236,066	N71-29050*	c 31	NASA-CASE-HQN-00936		US-PATENT-APPL-SN-529594	
N71-28960*	c 10	NASA-CASE-XNP-00745		US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1	
		US-PATENT-APPL-SN-314570		US-PATENT-CLASS-244-1			US-PATENT-2,956,772	
		US-PATENT-CLASS-328-67		US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831	
		US-PATENT-3,252,100	N71-29051*	c 33	NASA-CASE-XMF-04208		US-PATENT-APPL-SN-238421	
N71-28963*	c 16	NASA-CASE-XLA-01090		US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54	
		US-PATENT-APPL-SN-274065		US-PATENT-CLASS-73-190			US-PATENT-3,212,259	
		US-PATENT-CLASS-250-199		US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155	
		US-PATENT-3,215,842	N71-29052*	c 33	NASA-CASE-MS-12389		US-PATENT-APPL-SN-348600	
N71-28965* #	c 07	NASA-CASE-GSC-10949-1		US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77	
		US-PATENT-APPL-SN-94369		US-PATENT-CLASS-165-47			US-PATENT-2,997,274	
N71-28979*	c 07	NASA-CASE-HQN-00937		US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MS-12390	
		US-PATENT-APPL-SN-343760		US-PATENT-3,212,564			US-PATENT-APPL-SN-231520	
		US-PATENT-CLASS-343-823	N71-29053*	c 33	NASA-CASE-HQN-00938		US-PATENT-CLASS-222-61	
		US-PATENT-3,299,431		US-PATENT-APPL-SN-300957			US-PATENT-CLASS-226-82	
N71-28980*	c 07	NASA-CASE-XLA-10772		US-PATENT-CLASS-60-267			US-PATENT-3,286,882	
		US-PATENT-APPL-SN-887700		US-PATENT-3,298,175	N71-29156*	c 26	NASA-CASE-XNP-01961	
		US-PATENT-CLASS-343-708		NASA-CASE-ERC-10011			US-PATENT-APPL-SN-442835	
		US-PATENT-CLASS-343-784		US-PATENT-APPL-SN-802818			US-PATENT-CLASS-148-174	
		US-PATENT-CLASS-343-872		US-PATENT-CLASS-333-81			US-PATENT-3,397,094	
		US-PATENT-3,579,242		US-PATENT-CLASS-350-1	N71-29184*	c 25	NASA-CASE-XLA-00327	
N71-28991*	c 14	NASA-CASE-XLA-06713		US-PATENT-CLASS-350-286			US-PATENT-APPL-SN-199199	
		US-PATENT-APPL-SN-863913		US-PATENT-3,574,438			US-PATENT-CLASS-315-111	
		US-PATENT-CLASS-324-5	N71-29123*	c 23	NASA-CASE-XNP-08907		US-PATENT-3,238,413	
		US-PATENT-CLASS-324-73		US-PATENT-APPL-SN-824042			US-PATENT-CLASS-350-102	
		US-PATENT-CLASS-340-347AD		US-PATENT-CLASS-350-288			US-PATENT-CLASS-350-310	
		US-PATENT-3,579,103		US-PATENT-CLASS-350-310			US-PATENT-3,574,448	
N71-28992*	c 14	NASA-CASE-ERC-10150	N71-29125*	c 23	NASA-CASE-NPO-11087	N71-30027*	c 23	NASA-CASE-GSC-10700
		US-PATENT-APPL-SN-822519		US-PATENT-APPL-SN-840359			US-PATENT-APPL-SN-311387	
		US-PATENT-CLASS-250-41.95		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-350-2	
		US-PATENT-CLASS-73-40.7		US-PATENT-CLASS-356-153			US-PATENT-3,394,975	
		US-PATENT-3,578,758		US-PATENT-3,574,467	N71-30028*	c 15	NASA-CASE-MFS-20830	
N71-28993*	c 14	NASA-CASE-MFS-20044					US-PATENT-APPL-SN-286620	

N71-30265*	c 14	US-PATENT-3,262,395	US-PATENT-CLASS-325-480	US-PATENT-CLASS-250-235
		NASA-CASE-HQN-10780	US-PATENT-CLASS-325-482	US-PATENT-CLASS-33-125
		US-PATENT-APPL-SN-247136	US-PATENT-CLASS-328-164	US-PATENT-CLASS-356-167
N71-30292*	c 23	US-PATENT-CLASS-73-497	US-PATENT-CLASS-328-165	US-PATENT-CLASS-356-32
		US-PATENT-3,270,565	US-PATENT-CLASS-329-145	US-PATENT-CLASS-73-95
		NASA-CASE-HQN-10781	US-PATENT-3,588,705	US-PATENT-3,592,545
N71-33108*	c 07	US-PATENT-APPL-SN-86018	N71-34044* # c 03	NASA-CASE-MFS-20485
		US-PATENT-3,239,660	US-PATENT-APPL-SN-115944	US-PATENT-APPL-SN-22320
		NASA-CASE-KSC-10164	NASA-CASE-MFS-20935	US-PATENT-CLASS-250-43.5FC
N71-33109*	c 09	US-PATENT-APPL-SN-782955	US-PATENT-APPL-SN-136007	US-PATENT-CLASS-73-194F
		US-PATENT-CLASS-179-1R	NASA-CASE-HQN-10683	US-PATENT-3,599,489
		US-PATENT-CLASS-179-1VC	US-PATENT-APPL-SN-146217	N72-11385* c 15
N71-33110*	c 08	US-PATENT-3,588,359	NASA-CASE-HQN-10537-1	NASA-CASE-MFS-18495
		NASA-CASE-ARC-10101-1	US-PATENT-APPL-SN-112366	US-PATENT-APPL-SN-38814
		US-PATENT-APPL-SN-793823	NASA-CASE-GSC-11095-1	US-PATENT-CLASS-24-211N
N71-33129*	c 10	US-PATENT-CLASS-307-251	US-PATENT-APPL-SN-147940	US-PATENT-CLASS-85-5B
		US-PATENT-CLASS-307-261	N72-11018* c 02	US-PATENT-3,596,554
		US-PATENT-CLASS-321-47	NASA-CASE-LAR-10557	NASA-CASE-MFS-20249
N71-33160*	c 31	US-PATENT-3,588,671	US-PATENT-APPL-SN-853746	US-PATENT-APPL-SN-794530
		NASA-CASE-GSC-10186	US-PATENT-CLASS-416-115	US-PATENT-CLASS-248-183
		US-PATENT-APPL-SN-713188	US-PATENT-CLASS-416-121	US-PATENT-CLASS-248-278
N71-33229*	c 23	US-PATENT-CLASS-235-164	US-PATENT-CLASS-416-127	US-PATENT-CLASS-248-487
		US-PATENT-CLASS-235-175	US-PATENT-CLASS-416-130	US-PATENT-CLASS-33-72
		US-PATENT-3,588,483	US-PATENT-CLASS-416-149	US-PATENT-CLASS-350-285
N71-33407*	c 10	NASA-CASE-GSC-10667-1	US-PATENT-CLASS-416-200	US-PATENT-CLASS-350-287
		US-PATENT-APPL-SN-749548	US-PATENT-3,592,559	US-PATENT-3,596,863
		US-PATENT-CLASS-330-11	N72-11062* c 03	NASA-CASE-XMF-09902
N71-33408*	c 17	US-PATENT-CLASS-330-16	NASA-CASE-XGS-04047-2	US-PATENT-APPL-SN-769665
		US-PATENT-CLASS-330-24	US-PATENT-APPL-SN-843251	US-PATENT-CLASS-75-20F
		US-PATENT-3,585,514	US-PATENT-CLASS-136-206	US-PATENT-3,592,628
N71-33409*	c 03	NASA-CASE-XLA-04063	US-PATENT-3,597,281	N72-11388* c 15
		US-PATENT-APPL-SN-802948	NASA-CASE-NPO-10677	NASA-CASE-MFS-20423
		US-PATENT-CLASS-179-1	US-PATENT-APPL-SN-868530	US-PATENT-APPL-SN-865298
N71-33410*	c 16	US-PATENT-CLASS-244-1	US-PATENT-CLASS-62-467	US-PATENT-CLASS-212-134
		US-PATENT-CLASS-244-83	US-PATENT-CLASS-62-56	US-PATENT-CLASS-308-5
		US-PATENT-3,586,261	US-PATENT-3,599,443	US-PATENT-3,600,046
N71-33409*	c 03	NASA-CASE-NPO-10468	N72-11085* c 05	NASA-CASE-XLA-05056
		US-PATENT-APPL-SN-787846	NASA-CASE-MS-13140	US-PATENT-APPL-SN-596733
		US-PATENT-CLASS-350-310	US-PATENT-APPL-SN-796358	US-PATENT-CLASS-210-445
N71-33408*	c 17	US-PATENT-CLASS-350-55	US-PATENT-CLASS-285-410	US-PATENT-3,592,768
		US-PATENT-3,588,220	US-PATENT-CLASS-297-232	N72-11390* c 15
		NASA-CASE-NPO-10342	US-PATENT-CLASS-297-68	NASA-CASE-MFS-18100
N71-33408*	c 17	US-PATENT-CLASS-340-347DD	US-PATENT-CLASS-5-69	US-PATENT-APPL-SN-784055
		US-PATENT-3,588,883	US-PATENT-3,592,505	US-PATENT-CLASS-15-143
		NASA-CASE-LEW-10327	N72-11148* c 07	US-PATENT-CLASS-15-210
N71-33409*	c 03	US-PATENT-APPL-SN-772006	NASA-CASE-NPO-10301	US-PATENT-3,591,885
		US-PATENT-CLASS-148-6.3	US-PATENT-APPL-SN-848810	N72-11391* c 15
		US-PATENT-3,591,426	US-PATENT-CLASS-343-771	NASA-CASE-NPO-11012
N71-33518*	c 15	NASA-CASE-ARC-10050	US-PATENT-CLASS-343-753	US-PATENT-APPL-SN-845807
		US-PATENT-APPL-SN-797219	US-PATENT-3,599,216	US-PATENT-CLASS-248-18
		US-PATENT-CLASS-136-89	N72-11149* c 07	US-PATENT-CLASS-248-20
N71-33519*	c 09	US-PATENT-3,591,420	NASA-CASE-GSC-10390	US-PATENT-3,592,422
		NASA-CASE-NPO-10417	US-PATENT-APPL-SN-749121	N72-11392* c 15
		US-PATENT-APPL-SN-753974	US-PATENT-CLASS-325-39	NASA-CASE-MFS-20299
N71-33606*	c 07	US-PATENT-CLASS-331-94.5	US-PATENT-CLASS-325-4	US-PATENT-APPL-SN-889437
		US-PATENT-CLASS-352-84	US-PATENT-CLASS-325-58	US-PATENT-CLASS-156-320
		US-PATENT-CLASS-95-11	US-PATENT-CLASS-343-179	US-PATENT-CLASS-156-66
N71-33612*	c 11	US-PATENT-3,587,424	US-PATENT-CLASS-343-5DP	US-PATENT-CLASS-219-221
		NASA-CASE-XLA-03861	US-PATENT-CLASS-343-7.5	US-PATENT-CLASS-219-243
		US-PATENT-APPL-SN-751266	US-PATENT-3,593,138	US-PATENT-3,593,001
N71-33613*	c 07	US-PATENT-CLASS-408-137	N72-11150* c 07	NASA-CASE-NPO-11064
		US-PATENT-CLASS-90-11	US-PATENT-APPL-SN-880248	US-PATENT-APPL-SN-121328
		US-PATENT-3,585,882	US-PATENT-CLASS-331-10	N72-11595* c 24
N71-33696*	c 07	NASA-CASE-ERC-10100	US-PATENT-CLASS-331-34	US-PATENT-APPL-SN-855004
		US-PATENT-APPL-SN-766697	US-PATENT-CLASS-331-66	US-PATENT-CLASS-250-49.5B
		US-PATENT-CLASS-313-109.5	US-PATENT-CLASS-331-7	US-PATENT-CLASS-250-49.5TE
N71-33613*	c 07	US-PATENT-CLASS-313-231	US-PATENT-3,593,180	US-PATENT-CLASS-250-51
		US-PATENT-CLASS-315-108	N72-11171* c 08	US-PATENT-CLASS-250-52
		US-PATENT-CLASS-315-111	NASA-CASE-NPO-10769	US-PATENT-3,593,024
N71-33613*	c 07	US-PATENT-CLASS-340-324	US-PATENT-APPL-SN-813494	N72-11708* c 28
		US-PATENT-CLASS-340-336	US-PATENT-CLASS-179-15.55R	NASA-CASE-MFS-20619
		US-PATENT-3,588,874	US-PATENT-3,598,921	US-PATENT-APPL-SN-18982
N71-33612*	c 11	NASA-CASE-NPO-11031	N72-11172* c 08	US-PATENT-CLASS-139-425R
		US-PATENT-APPL-SN-864097	NASA-CASE-GSC-10880-1	US-PATENT-CLASS-239-265.19
		US-PATENT-CLASS-333-21A	US-PATENT-APPL-SN-831118	US-PATENT-CLASS-239-265.43
N71-33612*	c 11	US-PATENT-CLASS-333-6	US-PATENT-CLASS-235-61NV	US-PATENT-CLASS-60-271
		US-PATENT-CLASS-333-7	US-PATENT-CLASS-33-15A	US-PATENT-3,596,465
		US-PATENT-3,588,751	US-PATENT-CLASS-33-204C	N72-11709* c 28
N71-33612*	c 11	NASA-CASE-XLA-09480	US-PATENT-3,599,335	NASA-CASE-NPO-10737
		US-PATENT-APPL-SN-874435	N72-11224* c 09	US-PATENT-APPL-SN-760114
		US-PATENT-CLASS-73-147	NASA-CASE-GSC-10614-1	US-PATENT-CLASS-60-202
N71-33613*	c 07	US-PATENT-3,587,306	US-PATENT-APPL-SN-822534	US-PATENT-CLASS-60-39-48
		NASA-CASE-NPO-10700	US-PATENT-CLASS-179-100-2CA	US-PATENT-3,591,967
		US-PATENT-APPL-SN-840308	US-PATENT-CLASS-179-100-2MD	N72-12080* c 07
N71-33696*	c 07	US-PATENT-CLASS-318-227	US-PATENT-CLASS-274-4R	NASA-CASE-GSC-10087-3
		US-PATENT-CLASS-318-230	US-PATENT-3,592,478	US-PATENT-APPL-SN-880885
		US-PATENT-3,588,648	N72-11225* c 09	US-PATENT-CLASS-325-4
N71-33696*	c 07	NASA-CASE-MS-12165-1	NASA-CASE-KSC-10162	US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-875849	US-PATENT-APPL-SN-817481	US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-325-347	US-PATENT-CLASS-324-102	US-PATENT-3,594,790
N71-33696*	c 07	US-PATENT-CLASS-325-348	US-PATENT-CLASS-324-119	N72-12081* c 07
		US-PATENT-CLASS-325-473	US-PATENT-CLASS-324-123R	NASA-CASE-GSC-10185-1
		US-PATENT-CLASS-325-478	US-PATENT-3,593,132	US-PATENT-APPL-SN-733039
N71-33696*	c 07		N72-11256* c 10	US-PATENT-CLASS-178-DIG.12
			NASA-CASE-ARC-10042-2	US-PATENT-CLASS-178-6
			US-PATENT-APPL-SN-33159	US-PATENT-CLASS-178-7.3
N71-33696*	c 07		US-PATENT-CLASS-330-107	US-PATENT-CLASS-325-10
			US-PATENT-CLASS-330-109	US-PATENT-CLASS-325-13
			US-PATENT-3,593,175	US-PATENT-3,588,331
N71-33696*	c 07		N72-11363* c 14	NASA-CASE-XER-09521
			NASA-CASE-MS-11847-1	US-PATENT-APPL-SN-771530
			US-PATENT-APPL-SN-8497	US-PATENT-CLASS-136-202
N71-33696*	c 07		US-PATENT-CLASS-73-149	US-PATENT-CLASS-136-206
			US-PATENT-CLASS-73-290B	US-PATENT-CLASS-136-227
			US-PATENT-3,596,510	US-PATENT-CLASS-343-DIG.3
N71-33696*	c 07		N72-11364* c 14	
			NASA-CASE-NPO-10778	
			US-PATENT-APPL-SN-865909	

		US-PATENT-CLASS-343-720			US-PATENT-APPL-SN-47443			US-PATENT-APPL-SN-24154
		US-PATENT-CLASS-343-840			US-PATENT-CLASS-250-211J			US-PATENT-CLASS-188-1C
		US-PATENT-3,594,803			US-PATENT-3,603,798			US-PATENT-CLASS-188-129
N72-12408*	c 15	NASA-CASE-XLA-05966	N72-17153* #	c 09	NASA-CASE-ARC-10105	N72-17451* #	c 15	US-PATENT-3,603,433
		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698			NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252F			US-PATENT-CLASS-180-125
		US-PATENT-3,584,660			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-127
N72-12409*	c 15	NASA-CASE-NPO-10637			US-PATENT-CLASS-325-492			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-851298			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-236-68			US-PATENT-3,603,946			US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-354	N72-17154* #	c 09	NASA-CASE-ERC-10139			US-PATENT-3,610,365
		US-PATENT-CLASS-337-359			US-PATENT-APPL-SN-889555	N72-17452* #	c 15	NASA-CASE-XLA-10322
		US-PATENT-CLASS-337-75			US-PATENT-CLASS-321-10			US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-336-178			US-PATENT-CLASS-73-88.5R
		US-PATENT-3,591,960			US-PATENT-3,603,864			US-PATENT-3,608,365
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155* #	c 09	NASA-CASE-NPO-11023	N72-17453* #	c 15	NASA-CASE-NPO-11177
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-330-18			US-PATENT-CLASS-62-51
		US-PATENT-CLASS-350-1			US-PATENT-CLASS-330-40			US-PATENT-3,605,424
		US-PATENT-CLASS-350-312			US-PATENT-3,603,892	N72-17454* #	c 15	NASA-CASE-NPO-11059
		US-PATENT-3,593,194			NASA-CASE-NPO-10199			US-PATENT-APPL-SN-864020
N72-13437*	c 16	NASA-CASE-MFS-20125			US-PATENT-APPL-SN-793931			US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-830366			US-PATENT-CLASS-178-7.1			US-PATENT-3,606,979
		US-PATENT-CLASS-178-DIG.21			US-PATENT-CLASS-330-11	N72-17455* #	c 15	NASA-CASE-NPO-11140
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-330-35			US-PATENT-APPL-SN-15019
		US-PATENT-CLASS-250-203X			US-PATENT-3,609,230			US-PATENT-CLASS-174-84
		US-PATENT-CLASS-356-152			NASA-CASE-NPO-11253			US-PATENT-CLASS-200-64
		US-PATENT-3,603,686	N72-17156* #	c 09	US-PATENT-APPL-SN-21906			US-PATENT-CLASS-339-176M
N72-15098* #	c 05	NASA-CASE-MSC-13917-1			US-PATENT-CLASS-307-223			US-PATENT-CLASS-339-278M
		US-PATENT-APPL-SN-198355			US-PATENT-CLASS-307-227			US-PATENT-CLASS-339-46
N72-15986* #	c 03	NASA-CASE-XGS-10010			US-PATENT-CLASS-307-81			US-PATENT-CLASS-89-1.811
		US-PATENT-APPL-SN-729299			US-PATENT-CLASS-328-186			US-PATENT-3,611,274
		US-PATENT-CLASS-136-133			US-PATENT-3,609,387	N72-17532* #	c 18	NASA-CASE-MFS-13532
		US-PATENT-CLASS-136-135			NASA-CASE-XAC-05462-2			US-PATENT-APPL-SN-720546
		US-PATENT-CLASS-136-6	N72-17171* #	c 10	US-PATENT-APPL-SN-28235			US-PATENT-CLASS-106-292
		US-PATENT-3,607,401			US-PATENT-CLASS-307-295			US-PATENT-CLASS-106-299
N72-16015* #	c 05	NASA-CASE-KSC-10278			US-PATENT-CLASS-328-167			US-PATENT-3,607,338
		US-PATENT-APPL-SN-856327			US-PATENT-CLASS-330-109	N72-17747* #	c 23	NASA-CASE-ERC-10089
		US-PATENT-CLASS-324-66			US-PATENT-CLASS-330-176			US-PATENT-APPL-SN-791267
		US-PATENT-CLASS-340-279			US-PATENT-CLASS-333-70CR			US-PATENT-CLASS-340-174AG
		US-PATENT-CLASS-35-8			US-PATENT-3,609,567			US-PATENT-CLASS-340-174CT
N72-16172* #	c 10	US-PATENT-3,609,740	N72-17172* #	c 10	NASA-CASE-ARC-10020			US-PATENT-CLASS-340-174GA
		NASA-CASE-ARC-10269-1			US-PATENT-APPL-SN-31885			US-PATENT-CLASS-340-174SC
		US-PATENT-APPL-SN-56791			US-PATENT-CLASS-330-107			US-PATENT-3,611,330
		US-PATENT-CLASS-307-230			US-PATENT-CLASS-330-109	N72-17820* #	c 26	NASA-CASE-XER-08476-1
		US-PATENT-CLASS-307-262			US-PATENT-CLASS-330-26			US-PATENT-APPL-SN-672388
		US-PATENT-CLASS-328-155			US-PATENT-CLASS-330-31			US-PATENT-CLASS-148-187
		US-PATENT-3,614,475			US-PATENT-CLASS-330-94			US-PATENT-CLASS-29-578
N72-16282* #	c 14	NASA-CASE-LAR-10913			US-PATENT-3,605,032			US-PATENT-CLASS-29-589
		US-PATENT-APPL-SN-779160	N72-17173* #	c 10	NASA-CASE-MFS-13130			US-PATENT-3,602,984
		US-PATENT-CLASS-73-12			US-PATENT-APPL-SN-7868	N72-17843* #	c 28	NASA-CASE-NPO-10046
		US-PATENT-3,605,482			US-PATENT-CLASS-250-209			US-PATENT-APPL-SN-860635
N72-16283* #	c 14	NASA-CASE-GSC-10780-1			US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-860493			US-PATENT-CLASS-340-228.2			US-PATENT-CLASS-60-39.74
		US-PATENT-CLASS-82-24R			US-PATENT-3,609,364			US-PATENT-3,603,092
		US-PATENT-3,608,409	N72-17183* #	c 11	NASA-CASE-MFS-20509	N72-17873* #	c 30	NASA-CASE-ARC-10134
N72-16329* #	c 15	NASA-CASE-XLA-07829			US-PATENT-APPL-SN-889557			US-PATENT-APPL-SN-819898
		US-PATENT-APPL-SN-763684			US-PATENT-CLASS-73-147			US-PATENT-CLASS-244-3.21
		US-PATENT-CLASS-264-DIG.44			US-PATENT-3,602,920			US-PATENT-3,603,532
		US-PATENT-CLASS-264-221	N72-17323* #	c 14	NASA-CASE-ERC-10248	N72-17947* #	c 33	NASA-CASE-MSC-12143-1
		US-PATENT-CLASS-264-225			US-PATENT-APPL-SN-868445			US-PATENT-APPL-SN-791268
		US-PATENT-CLASS-264-227			US-PATENT-CLASS-350-162			US-PATENT-CLASS-102-105
		US-PATENT-3,608,046			US-PATENT-CLASS-356-113			US-PATENT-CLASS-161-67
N72-16330* #	c 15	NASA-CASE-LAR-10203-1			US-PATENT-CLASS-356-209			US-PATENT-CLASS-244-117
		US-PATENT-APPL-SN-769592			US-PATENT-CLASS-356-244			US-PATENT-3,603,260
		US-PATENT-CLASS-156-84			US-PATENT-3,603,690	N72-17948* #	c 33	NASA-CASE-NPO-10828
		US-PATENT-CLASS-156-86	N72-17324* #	c 14	NASA-CASE-MFS-20596			US-PATENT-APPL-SN-873260
		US-PATENT-3,607,495			US-PATENT-APPL-SN-7867			US-PATENT-CLASS-165-105
N72-17093* #	c 06	NASA-CASE-LEW-10794-1			US-PATENT-CLASS-350-3.5			US-PATENT-3,603,382
		US-PATENT-APPL-SN-33535			US-PATENT-3,605,519	N72-18184* #	c 08	NASA-CASE-NPO-10629
		US-PATENT-CLASS-23-55			NASA-CASE-MSC-15158-1			US-PATENT-APPL-SN-860751
		US-PATENT-CLASS-23-88			US-PATENT-APPL-SN-889479			US-PATENT-CLASS-178-50
		US-PATENT-CLASS-23-97			US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-66
		US-PATENT-3,607,015			US-PATENT-3,609,535			US-PATENT-CLASS-179-15
N72-17094* #	c 06	NASA-CASE-NPO-10234			NASA-CASE-XMS-01994-1			US-PATENT-CLASS-235-154
		US-PATENT-APPL-SN-800204	N72-17326* #	c 14	US-PATENT-APPL-SN-814212			US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-23-230R			US-PATENT-CLASS-356-4			US-PATENT-3,603,976
		US-PATENT-CLASS-23-232C			US-PATENT-3,603,683	N72-18411* #	c 14	NASA-CASE-KSC-10294
		US-PATENT-CLASS-23-253PC			NASA-CASE-LEW-10281-1			US-PATENT-APPL-SN-889556
		US-PATENT-CLASS-73-23.1			US-PATENT-APPL-SN-861649			US-PATENT-CLASS-307-311
		US-PATENT-3,607,076			US-PATENT-CLASS-73-198			US-PATENT-CLASS-346-107A
N72-17095* #	c 06	NASA-CASE-NPO-10774			US-PATENT-3,605,495			US-PATENT-CLASS-346-23
		US-PATENT-APPL-SN-848805	N72-17328* #	c 14	NASA-CASE-XLA-07813			US-PATENT-CLASS-352-84
		US-PATENT-CLASS-23-201			US-PATENT-APPL-SN-791364			US-PATENT-CLASS-95-1.1
		US-PATENT-CLASS-23-230			US-PATENT-CLASS-250-207			US-PATENT-3,603,974
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-250-41.9	N72-18477* #	c 15	NASA-CASE-GSC-10566-1
		US-PATENT-CLASS-73-76			US-PATENT-CLASS-250-49.5			US-PATENT-APPL-SN-889438
		US-PATENT-3,607,080			US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-242-54
N72-17109* #	c 07	NASA-CASE-MSC-12146-1			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-52-108
		US-PATENT-APPL-SN-50206			US-PATENT-3,609,353			US-PATENT-3,608,844
		US-PATENT-CLASS-178-5.2R	N72-17329* #	c 14	NASA-CASE-FRC-10012	N72-18766* #	c 28	NASA-CASE-GSC-10640-1
		US-PATENT-CLASS-178-5.4			US-PATENT-APPL-SN-771216			US-PATENT-APPL-SN-17101
		US-PATENT-CLASS-178-6.7			US-PATENT-CLASS-23-194A			US-PATENT-CLASS-23-281
		US-PATENT-3,603,722			US-PATENT-3,611,801			US-PATENT-CLASS-23-288
N72-17152* #	c 09	NASA-CASE-ARC-10178-1	N72-17450* #	c 15	NASA-CASE-MSC-12279			US-PATENT-CLASS-60-260

N72-18859* #	c 31	US-PATENT-3,603,093 NASA-CASE-MSC-13281 US-PATENT-APPL-SN-7669 US-PATENT-CLASS-244-15.5 US-PATENT-3,606,212	N72-20221* #	c 10	NASA-CASE-GSC-10082-1 US-PATENT-APPL-SN-41430 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-307-313 US-PATENT-CLASS-328-207 US-PATENT-CLASS-330-300 US-PATENT-3,633,048	N72-20767* #	c 28	US-PATENT-3,636,711 NASA-CASE-ARC-10180-1 US-PATENT-APPL-SN-136253
N72-20031* #	c 03	NASA-CASE-GSC-10669-1 US-PATENT-APPL-SN-90595 US-PATENT-CLASS-136-89 US-PATENT-CLASS-244-ISS US-PATENT-CLASS-340-210 US-PATENT-3,636,539	N72-20222* #	c 10	NASA-CASE-XLA-11189 US-PATENT-APPL-SN-889375 US-PATENT-CLASS-324-115 US-PATENT-CLASS-324-132 US-PATENT-3,638,114	N72-20840* #	c 31	NASA-CASE-MFS-20922 US-PATENT-APPL-SN-220274
N72-20032* #	c 03	NASA-CASE-NPO-11021 US-PATENT-APPL-SN-880250 US-PATENT-CLASS-136-166 US-PATENT-CLASS-136-79 US-PATENT-CLASS-136-81 US-PATENT-3,625,766	N72-20223* #	c 10	NASA-CASE-NPO-11133 US-PATENT-APPL-SN-887685 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-16 US-PATENT-CLASS-328-166 US-PATENT-CLASS-328-20 US-PATENT-CLASS-328-38 US-PATENT-3,626,308	N72-20915* #	c 33	NASA-CASE-NPO-10831 US-PATENT-APPL-SN-10161 US-PATENT-CLASS-122-32 US-PATENT-CLASS-165-133 US-PATENT-CLASS-165-155 US-PATENT-CLASS-165-158 US-PATENT-CLASS-165-161 US-PATENT-CLASS-165-174 US-PATENT-3,630,276
N72-20033* #	c 03	NASA-CASE-NPO-10401 US-PATENT-APPL-SN-15025 US-PATENT-CLASS-210-212 US-PATENT-CLASS-356-222 US-PATENT-3,630,627	N72-20224* #	c 10	NASA-CASE-NPO-11203 US-PATENT-APPL-SN-3696 US-PATENT-CLASS-324-83A US-PATENT-CLASS-324-85 US-PATENT-CLASS-328-133 US-PATENT-CLASS-343-12 US-PATENT-3,631,351	N72-21094* #	c 06	NASA-CASE-ERC-10108 US-PATENT-APPL-SN-833049 US-PATENT-CLASS-156-3 US-PATENT-CLASS-96-36.2 US-PATENT-3,615,465
N72-20034* #	c 03	NASA-CASE-LEW-11359-2 US-PATENT-APPL-SN-57399 US-PATENT-CLASS-136-100R US-PATENT-CLASS-136-175 US-PATENT-CLASS-136-83R US-PATENT-3,635,765	N72-20225* #	c 10	NASA-CASE-MSC-13407-1 US-PATENT-APPL-SN-65840 US-PATENT-CLASS-315-22 US-PATENT-CLASS-315-25 US-PATENT-3,638,066	N72-21105* #	c 06	NASA-CASE-GSC-11304-1 US-PATENT-APPL-SN-137912
N72-20096* #	c 05	NASA-CASE-MSC-12411-1 US-PATENT-APPL-SN-701244 US-PATENT-CLASS-128-142.5 US-PATENT-CLASS-128-402 US-PATENT-CLASS-2-2.1 US-PATENT-3,635,216	N72-20244* #	c 11	NASA-CASE-NPO-11210 US-PATENT-APPL-SN-880831 US-PATENT-CLASS-123-102 US-PATENT-CLASS-180-105E US-PATENT-CLASS-318-308 US-PATENT-CLASS-318-327 US-PATENT-CLASS-318-376 US-PATENT-3,630,304	N72-21117* #	c 07	NASA-CASE-XLA-11154 US-PATENT-APPL-SN-23532 US-PATENT-CLASS-343-706 US-PATENT-CLASS-343-912 US-PATENT-3,623,107
N72-20097* #	c 05	NASA-CASE-MFS-20332 US-PATENT-APPL-SN-869260 US-PATENT-CLASS-137-469 US-PATENT-CLASS-137-81 US-PATENT-3,636,966	N72-20379* #	c 14	NASA-CASE-GSC-10514-1 US-PATENT-APPL-SN-873045 US-PATENT-CLASS-250-208 US-PATENT-CLASS-356-138 US-PATENT-CLASS-356-152 US-PATENT-3,637,312	N72-21118* #	c 07	NASA-CASE-NPO-11001 US-PATENT-APPL-SN-856279 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-6.5R US-PATENT-3,624,650
N72-20098* #	c 05	NASA-CASE-MSC-12398 US-PATENT-APPL-SN-785615 US-PATENT-CLASS-2-2.1 US-PATENT-3,624,839	N72-20380* #	c 14	NASA-CASE-LAR-10176-1 US-PATENT-APPL-SN-811038 US-PATENT-CLASS-95-18 US-PATENT-3,626,828	N72-21119* #	c 07	NASA-CASE-ERC-10112 US-PATENT-APPL-SN-796690 US-PATENT-CLASS-179-100.2K US-PATENT-3,614,343
N72-20121* #	c 06	NASA-CASE-NPO-10765 US-PATENT-APPL-SN-770425 US-PATENT-CLASS-260-544F US-PATENT-3,637,842	N72-20381* #	c 14	NASA-CASE-GSC-10503-1 US-PATENT-APPL-SN-789044 US-PATENT-CLASS-250-83.6R US-PATENT-3,626,189	N72-21197* #	c 08	NASA-CASE-KSC-10326 US-PATENT-APPL-SN-25487 US-PATENT-CLASS-235-155 US-PATENT-CLASS-340-347DD US-PATENT-3,638,002
N72-20140* #	c 07	NASA-CASE-NPO-10844 US-PATENT-APPL-SN-839934 US-PATENT-CLASS-178-69.5R US-PATENT-CLASS-179-158S US-PATENT-CLASS-325-321 US-PATENT-CLASS-325-38 US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-58 US-PATENT-3,626,298	N72-20442* #	c 15	NASA-CASE-GSC-10607-1 US-PATENT-APPL-SN-27340 US-PATENT-CLASS-251-129 US-PATENT-CLASS-251-333 US-PATENT-3,632,081	N72-21198* #	c 08	NASA-CASE-ERC-10307 US-PATENT-APPL-SN-39755 US-PATENT-CLASS-307-299 US-PATENT-CLASS-307-303 US-PATENT-CLASS-307-311 US-PATENT-CLASS-340-173.2 US-PATENT-CLASS-340-173LS US-PATENT-3,623,030
N72-20141* #	c 07	NASA-CASE-ERC-10179 US-PATENT-APPL-SN-50207 US-PATENT-CLASS-325-445 US-PATENT-CLASS-329-161 US-PATENT-CLASS-329-162 US-PATENT-CLASS-332-51W US-PATENT-CLASS-333-73W US-PATENT-CLASS-343-772 US-PATENT-CLASS-343-773 US-PATENT-CLASS-343-786 US-PATENT-3,633,110	N72-20443* #	c 15	NASA-CASE-NPO-10671 US-PATENT-APPL-SN-857967 US-PATENT-CLASS-188-18 US-PATENT-CLASS-188-1C US-PATENT-CLASS-188-268 US-PATENT-3,637,051	N72-21199* #	c 08	NASA-CASE-NPO-10743 US-PATENT-APPL-SN-850587 US-PATENT-CLASS-340-174CS US-PATENT-CLASS-340-174LC US-PATENT-CLASS-340-174M US-PATENT-CLASS-340-174SR US-PATENT-3,613,110
N72-20154* #	c 07	NASA-CASE-NPO-11243 US-PATENT-APPL-SN-177753	N72-20444* #	c 15	NASA-CASE-FRC-10038 US-PATENT-APPL-SN-889554 US-PATENT-CLASS-29-412 US-PATENT-CLASS-29-426 US-PATENT-CLASS-29-527.2 US-PATENT-CLASS-29-624 US-PATENT-CLASS-51-216 US-PATENT-CLASS-51-320 US-PATENT-CLASS-51-323 US-PATENT-3,636,623	N72-21200* #	c 08	NASA-CASE-NPO-11018 US-PATENT-APPL-SN-873259 US-PATENT-CLASS-340-347AD US-PATENT-3,613,111
N72-20176* #	c 08	NASA-CASE-NPO-11130 US-PATENT-APPL-SN-21508 US-PATENT-CLASS-235-152 US-PATENT-CLASS-235-92CC US-PATENT-CLASS-235-92DE US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-340-347DA US-PATENT-CLASS-340-347DD US-PATENT-3,632,996	N72-20445* #	c 15	NASA-CASE-NPO-10704 US-PATENT-APPL-SN-59895 US-PATENT-CLASS-138-178 US-PATENT-CLASS-285-18 US-PATENT-CLASS-285-345 US-PATENT-3,632,140	N72-21243* #	c 09	NASA-CASE-LEW-11005-1 US-PATENT-APPL-SN-86548 US-PATENT-CLASS-323-DIG.1 US-PATENT-CLASS-323-22T US-PATENT-CLASS-323-38 US-PATENT-3,638,103
N72-20177* #	c 08	NASA-CASE-NPO-10748 US-PATENT-APPL-SN-63383 US-PATENT-CLASS-324-77G US-PATENT-3,631,339	N72-20446* #	c 15	NASA-CASE-MFS-20698 US-PATENT-APPL-SN-3418 US-PATENT-CLASS-100-299 US-PATENT-CLASS-23-209.1 US-PATENT-CLASS-264-22 US-PATENT-CLASS-425-77 US-PATENT-3,632,242	N72-21244* #	c 09	NASA-CASE-LAR-10545-1 US-PATENT-APPL-SN-31703 US-PATENT-CLASS-343-771 US-PATENT-CLASS-343-893 US-PATENT-3,638,224
N72-20199* #	c 09	NASA-CASE-NPO-10722 US-PATENT-APPL-SN-860492 US-PATENT-CLASS-200-81.9M US-PATENT-CLASS-335-205 US-PATENT-3,632,923	N72-20597* #	c 22	NASA-CASE-XLE-04599 US-PATENT-APPL-SN-751215 US-PATENT-CLASS-176-86G US-PATENT-3,629,068	N72-21245* #	c 09	NASA-CASE-ARC-10192 US-PATENT-APPL-SN-15024 US-PATENT-CLASS-307-230 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-142 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-70R US-PATENT-CLASS-330-85 US-PATENT-CLASS-333-80 US-PATENT-3,621,407
N72-20200* #	c 09	NASA-CASE-NPO-10694 US-PATENT-APPL-SN-24224 US-PATENT-CLASS-339-275T US-PATENT-CLASS-339-276T US-PATENT-3,631,382	N72-20758* #	c 28	NASA-CASE-XNP-03282 US-PATENT-APPL-SN-745337 US-PATENT-CLASS-60-254	N72-21246* #	c 09	NASA-CASE-NPO-11134 US-PATENT-APPL-SN-883524 US-PATENT-CLASS-318-576 US-PATENT-CLASS-324-71R US-PATENT-CLASS-346-1 US-PATENT-CLASS-346-29 US-PATENT-3,624,659
N72-20206* #	c 09	NASA-CASE-ERC-10468 US-PATENT-APPL-SN-144958				N72-21247* #	c 09	NASA-CASE-KSC-10393 US-PATENT-APPL-SN-71047 US-PATENT-CLASS-307-257 US-PATENT-CLASS-307-259 US-PATENT-CLASS-331-111 US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-30

N72-21248* #	c 09	US-PATENT-3,614,648	US-PATENT-CLASS-343-771	US-PATENT-APPL-SN-865106
		NASA-CASE-LAR-10503-1	US-PATENT-CLASS-343-797	US-PATENT-CLASS-128-2.1A
N72-21310* #	c 12	US-PATENT-APPL-SN-229143	US-PATENT-CLASS-343-853	US-PATENT-CLASS-128-2.1A
		NASA-CASE-MFS-20829	US-PATENT-CLASS-343-912	US-PATENT-CLASS-307-231
		US-PATENT-APPL-SN-61894	US-PATENT-CLASS-3623,114	US-PATENT-CLASS-307-247
		US-PATENT-CLASS-169-28	NASA-CASE-NPO-11333	US-PATENT-CLASS-307-288
		US-PATENT-CLASS-169-36	US-PATENT-APPL-SN-78065	US-PATENT-CLASS-325-29
		US-PATENT-3,613,794	US-PATENT-CLASS-178-52	US-PATENT-CLASS-325-492
N72-21405* #	c 14	NASA-CASE-NPO-10832	US-PATENT-CLASS-179-15A	US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-22265	US-PATENT-CLASS-179-15BL	US-PATENT-CLASS-340-203
		US-PATENT-CLASS-73-141A	US-PATENT-CLASS-307-243	US-PATENT-3,621,290
		US-PATENT-3,623,360	US-PATENT-CLASS-307-251	NASA-CASE-XER-11046
N72-21407* #	c 14	NASA-CASE-MFS-20642	US-PATENT-CLASS-328-104	US-PATENT-APPL-SN-810579
		US-PATENT-APPL-SN-873793	US-PATENT-CLASS-328-154	US-PATENT-CLASS-321-15
		US-PATENT-CLASS-73-147	US-PATENT-3,614,327	US-PATENT-CLASS-321-18
		US-PATENT-3,623,361	NASA-CASE-MS-C-13110-1	US-PATENT-CLASS-321-2
N72-21408* #	c 14	NASA-CASE-MS-C-13332-1	US-PATENT-APPL-SN-23132	US-PATENT-CLASS-321-45
		US-PATENT-APPL-SN-77169	US-PATENT-CLASS-340-347AD	US-PATENT-CLASS-331-117
		US-PATENT-CLASS-250-43.5R	US-PATENT-3,614,772	US-PATENT-3,621,362
		US-PATENT-CLASS-250-83.3H	NASA-CASE-NPO-10745	NASA-CASE-LAR-10137-1
		US-PATENT-3,614,431	US-PATENT-APPL-SN-878730	US-PATENT-APPL-SN-881041
		NASA-CASE-MS-C-12105-1	US-PATENT-CLASS-178-DIG.28	US-PATENT-CLASS-200-81R
N72-21409* #	c 14	US-PATENT-APPL-SN-763743	US-PATENT-CLASS-178-DIG.36	US-PATENT-CLASS-200-82C
		US-PATENT-CLASS-356-17	US-PATENT-CLASS-178-6.8	US-PATENT-3,609,271
		US-PATENT-CLASS-356-18	US-PATENT-CLASS-178-7.2R	NASA-CASE-GSC-10064-1
		US-PATENT-3,614,228	US-PATENT-3,621,130	NASA-CASE-GSC-10064-1
N72-21462* #	c 15	NASA-CASE-NPO-10679	NASA-CASE-NPO-11104	US-PATENT-APPL-SN-802812
		US-PATENT-APPL-SN-848282	US-PATENT-APPL-SN-860750	US-PATENT-CLASS-343-16M
		US-PATENT-CLASS-74-89.15	US-PATENT-CLASS-235-150.52	US-PATENT-CLASS-343-7.4
		US-PATENT-3,614,898	US-PATENT-CLASS-235-150.53	US-PATENT-CLASS-343-779
N72-21463* #	c 15	NASA-CASE-MFS-20413	US-PATENT-CLASS-235-183	US-PATENT-CLASS-343-786
		US-PATENT-APPL-SN-69209	US-PATENT-CLASS-235-194	US-PATENT-3,623,094
		US-PATENT-CLASS-74-469	US-PATENT-CLASS-235-197	NASA-CASE-GSC-10878-1
		US-PATENT-3,620,095	US-PATENT-CLASS-340-347R	US-PATENT-APPL-SN-889423
N72-21464* #	c 15	NASA-CASE-ARC-10176-1	US-PATENT-3,621,228	US-PATENT-CLASS-307-206
		US-PATENT-APPL-SN-889583	NASA-CASE-NPO-10560	US-PATENT-CLASS-307-215
		US-PATENT-CLASS-324-57R	US-PATENT-APPL-SN-856282	US-PATENT-CLASS-307-322
		US-PATENT-CLASS-324-64	US-PATENT-CLASS-235-153	US-PATENT-CLASS-307-323
		US-PATENT-CLASS-324-71R	US-PATENT-CLASS-324-73AT	US-PATENT-3,621,277
		US-PATENT-3,624,496	US-PATENT-CLASS-340-347AD	NASA-CASE-NPO-12109
N72-21465* #	c 15	NASA-CASE-GSC-10218-1	US-PATENT-3,603,772	US-PATENT-APPL-SN-690172
		US-PATENT-APPL-SN-15022	NASA-CASE-NPO-11082	US-PATENT-CLASS-230-54
		US-PATENT-CLASS-141-23	US-PATENT-APPL-SN-868529	US-PATENT-3,612,391
		US-PATENT-CLASS-195-127	US-PATENT-CLASS-235-152	NASA-CASE-XLA-07430
		US-PATENT-CLASS-222-135	US-PATENT-CLASS-340-146.1	US-PATENT-APPL-SN-867841
		US-PATENT-CLASS-222-309	US-PATENT-CLASS-340-348	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-222-71	US-PATENT-3,609,327	US-PATENT-3,620,076
		US-PATENT-CLASS-23-253R	NASA-CASE-MFS-14710	NASA-CASE-NPO-11013
		US-PATENT-CLASS-23-259	US-PATENT-APPL-SN-852843	US-PATENT-APPL-SN-858695
		US-PATENT-CLASS-73-425.6	US-PATENT-CLASS-74-105	US-PATENT-CLASS-42-1F
		US-PATENT-3,615,241	US-PATENT-3,614,899	US-PATENT-3,619,924
N72-21466* #	c 15	NASA-CASE-NPO-10440	NASA-CASE-ERC-10075-2	NASA-CASE-LAR-10496-1
		US-PATENT-APPL-SN-756834	US-PATENT-APPL-SN-775870	US-PATENT-APPL-SN-12661
		US-PATENT-CLASS-204-130	US-PATENT-CLASS-321-14	US-PATENT-CLASS-73-141A
		US-PATENT-CLASS-204-59	US-PATENT-CLASS-321-19	US-PATENT-3,611,798
		US-PATENT-3,616,338	US-PATENT-CLASS-321-2	NASA-CASE-ARC-10263-1
		NASA-CASE-XLA-10470	US-PATENT-CLASS-321-25	US-PATENT-APPL-SN-882122
N72-21489* #	c 15	US-PATENT-APPL-SN-219436	US-PATENT-CLASS-323-56	US-PATENT-CLASS-73-398C
		NASA-CASE-HQN-10439	US-PATENT-CLASS-323-89C	US-PATENT-3,620,083
N72-21624* #	c 21	US-PATENT-APPL-SN-889551	US-PATENT-3,614,587	NASA-CASE-MFS-20890
		US-PATENT-CLASS-244-1SA	NASA-CASE-LEW-10493-1	US-PATENT-APPL-SN-103229
		US-PATENT-3,637,170	US-PATENT-APPL-SN-849106	US-PATENT-CLASS-264-22
		NASA-CASE-ERC-10119	US-PATENT-CLASS-307-262	US-PATENT-CLASS-29-421
N72-21701* #	c 26	US-PATENT-APPL-SN-825258	US-PATENT-CLASS-307-88MP	US-PATENT-CLASS-310-11
		US-PATENT-CLASS-307-299	US-PATENT-3,612,895	US-PATENT-CLASS-310-42
		US-PATENT-CLASS-317-234V	NASA-CASE-MFS-13687-2	US-PATENT-3,626,218
		US-PATENT-CLASS-317-235R	US-PATENT-APPL-SN-80369	NASA-CASE-ARC-10154-1
		US-PATENT-CLASS-331-107	US-PATENT-CLASS-174-106R	US-PATENT-APPL-SN-793771
		US-PATENT-CLASS-332-31	US-PATENT-CLASS-174-117FF	US-PATENT-CLASS-73-67.2
		US-PATENT-3,614,557	US-PATENT-CLASS-174-36	US-PATENT-3,620,069
N72-21893* #	c 31	NASA-CASE-KSC-10622-1	US-PATENT-3,612,743	NASA-CASE-NPO-11002
		US-PATENT-APPL-SN-149983	NASA-CASE-ERC-10222	US-PATENT-APPL-SN-856328
N72-22041* #	c 03	NASA-CASE-NPO-10591	US-PATENT-APPL-SN-832603	US-PATENT-CLASS-350-19
		US-PATENT-APPL-SN-776185	US-PATENT-CLASS-29-590	US-PATENT-CLASS-350-23
		US-PATENT-CLASS-29-572	US-PATENT-3,621,565	US-PATENT-CLASS-350-26
		US-PATENT-3,616,528	NASA-CASE-FRC-10036	US-PATENT-CLASS-350-35
N72-22042* #	c 03	NASA-CASE-NPO-10747	US-PATENT-APPL-SN-872602	US-PATENT-CLASS-350-36
		US-PATENT-APPL-SN-6616	US-PATENT-CLASS-307-237	US-PATENT-CLASS-350-49
		US-PATENT-CLASS-136-89	US-PATENT-CLASS-307-254	US-PATENT-CLASS-350-52
		US-PATENT-3,615,853	US-PATENT-CLASS-307-317	US-PATENT-3,612,645
N72-22092* #	c 05	NASA-CASE-ARC-10275-1	US-PATENT-CLASS-328-1	NASA-CASE-MFS-21629
		US-PATENT-APPL-SN-21644	US-PATENT-CLASS-328-151	US-PATENT-APPL-SN-612265
		US-PATENT-CLASS-2.2.1A	US-PATENT-CLASS-73-88.5	US-PATENT-CLASS-324-61
		US-PATENT-3,636,564	US-PATENT-3,621,285	US-PATENT-CLASS-73-304
N72-22093* #	c 05	NASA-CASE-MS-C-12324-1	NASA-CASE-LEW-10387	US-PATENT-3,639,835
		US-PATENT-APPL-SN-63384	US-PATENT-APPL-SN-76899	NASA-CASE-XGS-03736
		US-PATENT-CLASS-128-295	US-PATENT-CLASS-307-223B	US-PATENT-APPL-SN-749320
		US-PATENT-CLASS-4-110	US-PATENT-CLASS-307-241	US-PATENT-CLASS-252-300
		US-PATENT-CLASS-4-99	US-PATENT-CLASS-307-252J	US-PATENT-CLASS-96-90PC
		US-PATENT-3,602,923	US-PATENT-CLASS-307-252K	US-PATENT-3,639,250
N72-22107* #	c 06	NASA-CASE-NPO-10862	US-PATENT-CLASS-307-284	NASA-CASE-LAR-10523-1
		US-PATENT-APPL-SN-810815	US-PATENT-CLASS-307-304	US-PATENT-APPL-SN-32665
		US-PATENT-CLASS-260-877	US-PATENT-CLASS-307-317	US-PATENT-CLASS-250-203
		US-PATENT-3,639,510	US-PATENT-CLASS-328-106	US-PATENT-CLASS-350-16
N72-22127* #	c 07	NASA-CASE-NPO-10303	US-PATENT-3,621,287	US-PATENT-CLASS-350-52
		US-PATENT-APPL-SN-848776	NASA-CASE-ARC-10136-1	US-PATENT-CLASS-356-248

N72-22445* #	c 14	US-PATENT-3,647,276	US-PATENT-CLASS-60-202	US-PATENT-CLASS-264-92
		NASA-CASE-LAR-10184	US-PATENT-3,613,370	US-PATENT-3,658,974
N72-22482* #	c 15	US-PATENT-APPL-SN-16808	NASA-CASE-LEW-10835-1	NASA-CASE-XNP-04167-2
		US-PATENT-CLASS-33-174S	US-PATENT-APPL-SN-67815	US-PATENT-APPL-SN-866442
N72-22483* #	c 15	US-PATENT-CLASS-350-86	US-PATENT-CLASS-60-202	US-PATENT-CLASS-313-186
		US-PATENT-3,620,595	US-PATENT-3,620,018	US-PATENT-CLASS-313-212
N72-22484* #	c 15	NASA-CASE-XLA-04897	NASA-CASE-NPO-12072	US-PATENT-CLASS-313-224
		US-PATENT-APPL-SN-880249	US-PATENT-APPL-SN-82647	US-PATENT-CLASS-313-231
N72-22485* #	c 15	US-PATENT-CLASS-73-133	US-PATENT-CLASS-123-122AB	US-PATENT-CLASS-315-111
		US-PATENT-3,613,457	US-PATENT-CLASS-137-81.5	US-PATENT-CLASS-315-326
N72-22486* #	c 15	NASA-CASE-XNP-09770-2	US-PATENT-CLASS-261-145	US-PATENT-CLASS-315-358
		US-PATENT-APPL-SN-864039	US-PATENT-3,640,256	US-PATENT-CLASS-331-94.5
N72-22487* #	c 15	US-PATENT-CLASS-209-349	NASA-CASE-NPO-10883	US-PATENT-3,617,804
		US-PATENT-3,615,021	US-PATENT-APPL-SN-26573	NASA-CASE-NPO-10575
N72-22488* #	c 15	NASA-CASE-LAR-10031	US-PATENT-CLASS-136-89	US-PATENT-APPL-SN-6615
		US-PATENT-APPL-SN-867851	US-PATENT-CLASS-312-257	US-PATENT-CLASS-156-250
N72-22489* #	c 15	US-PATENT-CLASS-62-55.5	US-PATENT-3,620,846	US-PATENT-CLASS-156-510
		US-PATENT-3,625,018	NASA-CASE-NPO-11388	US-PATENT-3,654,036
N72-22490* #	c 15	NASA-CASE-MS-13512-1	US-PATENT-APPL-SN-119282	NASA-CASE-GSC-11211-1
		US-PATENT-APPL-SN-73932	US-PATENT-CLASS-310-2	US-PATENT-APPL-SN-139528
N72-22491* #	c 15	US-PATENT-CLASS-74-501R	US-PATENT-CLASS-321-2	US-PATENT-CLASS-235-92T
		US-PATENT-3,625,084	US-PATENT-CLASS-322-2	US-PATENT-CLASS-307-141.8
N72-22492* #	c 15	NASA-CASE-KSC-10031	US-PATENT-3,648,152	US-PATENT-CLASS-320-48
		US-PATENT-APPL-SN-98773	NASA-CASE-LAR-10102-1	US-PATENT-CLASS-324-29.5
N72-22493* #	c 15	US-PATENT-CLASS-220-5R	US-PATENT-APPL-SN-13266	US-PATENT-3,663,938
		US-PATENT-CLASS-317-101DH	US-PATENT-CLASS-224-25A	NASA-CASE-NPO-11118
N72-22494* #	c 15	US-PATENT-CLASS-317-117	US-PATENT-3,649,921	US-PATENT-APPL-SN-8850
		US-PATENT-CLASS-317-120	NASA-CASE-GSC-10221-1	US-PATENT-CLASS-214-90R
N72-22495* #	c 15	US-PATENT-3,639,809	US-PATENT-APPL-SN-779025	US-PATENT-3,666,120
		NASA-CASE-GSC-10303	US-PATENT-CLASS-307-252N	NASA-CASE-MS-12397-1
N72-22496* #	c 15	US-PATENT-APPL-SN-802813	US-PATENT-CLASS-307-252R	US-PATENT-APPL-SN-785613
		US-PATENT-CLASS-29-473.1	US-PATENT-CLASS-307-259	US-PATENT-CLASS-2-115
N72-22497* #	c 15	US-PATENT-3,619,896	US-PATENT-CLASS-307-305	US-PATENT-CLASS-2-2.1
		NASA-CASE-MS-11849-1	US-PATENT-3,621,294	US-PATENT-3,660,851
N72-22498* #	c 15	US-PATENT-APPL-SN-6617	NASA-CASE-LAR-10320-1	NASA-CASE-MS-90153-2
		US-PATENT-CLASS-85-1	US-PATENT-APPL-SN-18427	US-PATENT-APPL-SN-844225
N72-22499* #	c 15	US-PATENT-3,623,394	US-PATENT-CLASS-324-20R	US-PATENT-CLASS-106-209
		NASA-CASE-GSC-10518-1	US-PATENT-3,649,907	US-PATENT-CLASS-128-2.1
N72-22500* #	c 15	US-PATENT-APPL-SN-789045	NASA-CASE-ERC-10267	US-PATENT-CLASS-128-417
		US-PATENT-CLASS-417-152	US-PATENT-APPL-SN-41348	US-PATENT-CLASS-252-514
N72-22501* #	c 15	US-PATENT-CLASS-55-446	US-PATENT-CLASS-235-197	US-PATENT-CLASS-264-104
		US-PATENT-CLASS-55-464	US-PATENT-CLASS-307-229	US-PATENT-3,665,064
N72-22502* #	c 15	US-PATENT-3,623,828	US-PATENT-CLASS-328-145	NASA-CASE-FRC-10029-2
		NASA-CASE-LEW-10856-1	US-PATENT-3,648,043	US-PATENT-APPL-SN-78704
N72-22503* #	c 15	US-PATENT-APPL-SN-3417	NASA-CASE-MFS-20710	US-PATENT-CLASS-156-264
		US-PATENT-CLASS-308-195	US-PATENT-APPL-SN-114848	US-PATENT-CLASS-156-308
N72-22504* #	c 15	US-PATENT-3,620,585	US-PATENT-CLASS-13-20	US-PATENT-CLASS-29-25.14
		NASA-CASE-GSC-10913	US-PATENT-CLASS-13-31	US-PATENT-CLASS-29-25.18
N72-22505* #	c 15	US-PATENT-APPL-SN-889558	US-PATENT-3,647,924	US-PATENT-CLASS-29-482
		US-PATENT-CLASS-219-158	NASA-CASE-MS-12297	US-PATENT-CLASS-29-630A
N72-22506* #	c 15	US-PATENT-CLASS-219-234	US-PATENT-APPL-SN-792623	US-PATENT-3,662,441
		US-PATENT-CLASS-219-85	US-PATENT-CLASS-55-493	NASA-CASE-MS-13609-1
N72-22507* #	c 15	US-PATENT-CLASS-228-57	US-PATENT-CLASS-55-498	US-PATENT-APPL-SN-94347
		US-PATENT-CLASS-29-628	US-PATENT-CLASS-55-502	US-PATENT-CLASS-128-2N
N72-22508* #	c 15	US-PATENT-3,621,194	US-PATENT-CLASS-55-521	US-PATENT-3,662,744
		NASA-CASE-MFS-20482	US-PATENT-3,650,095	NASA-CASE-NPO-11322
N72-22509* #	c 15	US-PATENT-APPL-SN-6610	NASA-CASE-KSC-10242	US-PATENT-APPL-SN-87550
		US-PATENT-CLASS-29-472.9	US-PATENT-APPL-SN-73834	US-PATENT-CLASS-250-43.5R
N72-22510* #	c 16	US-PATENT-CLASS-29-473.1	US-PATENT-CLASS-219-109	US-PATENT-CLASS-73-23.1
		US-PATENT-3,602,979	US-PATENT-CLASS-219-234	US-PATENT-3,666,942
N72-22511* #	c 16	NASA-CASE-LAR-10815-1	US-PATENT-CLASS-219-85	NASA-CASE-ARC-10325
		US-PATENT-APPL-SN-233587	US-PATENT-CLASS-324-65R	US-PATENT-APPL-SN-63610
N72-22512* #	c 17	NASA-CASE-XLE-06461	US-PATENT-3,621,193	US-PATENT-CLASS-260-2.5FP
		US-PATENT-APPL-SN-853855	NASA-CASE-GSC-10361-1	US-PATENT-3,663,464
N72-22513* #	c 17	US-PATENT-CLASS-75-5B	US-PATENT-APPL-SN-700040	NASA-CASE-MFS-13994-2
		US-PATENT-3,623,861	US-PATENT-CLASS-106-84	US-PATENT-APPL-SN-870689
N72-22514* #	c 17	NASA-CASE-LEW-10874-1	US-PATENT-3,620,784	US-PATENT-CLASS-260-348SC
		US-PATENT-APPL-SN-68024	NASA-CASE-HQN-10541-3	US-PATENT-3,660,434
N72-22515* #	c 17	US-PATENT-CLASS-148-32.5	US-PATENT-APPL-SN-822089	NASA-CASE-GSC-10565-1
		US-PATENT-CLASS-75-170	US-PATENT-CLASS-350-171	US-PATENT-APPL-SN-822039
N72-22516* #	c 18	US-PATENT-3,620,718	US-PATENT-3,606,522	US-PATENT-CLASS-195-103.5R
		NASA-CASE-MFS-20011	NASA-CASE-XNP-09461	US-PATENT-CLASS-195-28N
N72-22517* #	c 18	US-PATENT-APPL-SN-813338	US-PATENT-APPL-SN-670829	US-PATENT-CLASS-260-211.5
		US-PATENT-CLASS-106-286	US-PATENT-CLASS-239-418	US-PATENT-3,660,240
N72-22518* #	c 18	US-PATENT-CLASS-106-288B	US-PATENT-CLASS-239-433	NASA-CASE-XLE-06774-2
		US-PATENT-CLASS-106-84	US-PATENT-CLASS-239-543	US-PATENT-APPL-SN-5114
N72-22519* #	c 18	US-PATENT-3,620,791	US-PATENT-3,650,474	US-PATENT-CLASS-117-132
		NASA-CASE-NPO-11091	NASA-CASE-NPO-11458	US-PATENT-CLASS-117-161
N72-22520* #	c 18	US-PATENT-APPL-SN-860781	US-PATENT-APPL-SN-36926	US-PATENT-CLASS-260-2.5
		US-PATENT-CLASS-260-2.1E	US-PATENT-CLASS-60-266	US-PATENT-CLASS-260-92.1
N72-22521* #	c 21	US-PATENT-3,629,161	US-PATENT-CLASS-60-271	US-PATENT-3,666,741
		NASA-CASE-ARC-10179-1	US-PATENT-3,648,461	NASA-CASE-MFS-20979
N72-22522* #	c 21	US-PATENT-APPL-SN-835058	NASA-CASE-GSC-11514-1	US-PATENT-APPL-SN-100774
		US-PATENT-CLASS-244-114	US-PATENT-APPL-SN-820453	US-PATENT-CLASS-260-18S
N72-22523* #	c 23	US-PATENT-CLASS-340-26	US-PATENT-CLASS-317-247	US-PATENT-CLASS-260-448.2D
		US-PATENT-3,624,598	US-PATENT-CLASS-136-89	US-PATENT-CLASS-260-46.5E
N72-22524* #	c 23	NASA-CASE-XER-07896-2	US-PATENT-3,653,970	US-PATENT-CLASS-260-46.5G
		US-PATENT-APPL-SN-36819	NASA-CASE-ARC-10138-1	US-PATENT-CLASS-260-46.5P
N72-22525* #	c 23	US-PATENT-CLASS-350-310	US-PATENT-APPL-SN-774733	US-PATENT-3,666,718
		US-PATENT-3,620,606	US-PATENT-CLASS-250-83.3H	NASA-CASE-NPO-10863-2
N72-22526* #	c 28	NASA-CASE-ARC-10106-1	US-PATENT-CLASS-317-247	US-PATENT-APPL-SN-145026
		US-PATENT-APPL-SN-812998	US-PATENT-CLASS-324-61R	US-PATENT-CLASS-260-92.1
N72-22527* #	c 28	US-PATENT-CLASS-244-3.22	US-PATENT-CLASS-73-355R	US-PATENT-3,663,521
		US-PATENT-3,612,442	US-PATENT-3,657,844	NASA-CASE-LAR-10513-1
N72-22528* #	c 28	NASA-CASE-LEW-10770-1	NASA-CASE-NPO-11036	US-PATENT-APPL-SN-64723
		US-PATENT-APPL-SN-880246	US-PATENT-APPL-SN-41346	US-PATENT-CLASS-333-7

		US-PATENT-CLASS-333-81R			US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R
		US-PATENT-CLASS-333-98P			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422GC
		US-PATENT-CLASS-333-98R			US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC
		US-PATENT-CLASS-333-98S			NASA-CASE-ERC-10268			US-PATENT-3,662,604
		US-PATENT-3,649,935		N72-25252* # c 09	US-PATENT-APPL-SN-39342		N72-25409* # c 14	NASA-CASE-ERC-10174
N72-25171* # c 07		NASA-CASE-MFS-21042			US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-39344
		US-PATENT-APPL-SN-86417			US-PATENT-CLASS-321-18			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4			US-PATENT-CLASS-321-19			US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114			US-PATENT-CLASS-321-2			US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,667,044			US-PATENT-3,663,940		N72-25410* # c 14	NASA-CASE-ERC-10292
N72-25172* # c 07		NASA-CASE-NPO-11358		N72-25253* # c 09	NASA-CASE-GSC-11126-1			US-PATENT-APPL-SN-45519
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640			US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-3,657,928
N72-25173* # c 07		NASA-CASE-ERC-10324			US-PATENT-3,663,941		N72-25411* # c 14	NASA-CASE-MSC-15626-1
		US-PATENT-APPL-SN-54270		N72-25254* # c 09	NASA-CASE-NPO-10760			US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A			US-PATENT-3,656,352
		US-PATENT-CLASS-325-38			US-PATENT-3,663,944		N72-25412* # c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51		N72-25255* # c 09	NASA-CASE-LAR-10620-1			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15			US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167			US-PATENT-3,663,843			US-PATENT-3,659,043
		US-PATENT-3,665,313		N72-25256* # c 09	NASA-CASE-XLA-02609		N72-25413* # c 14	NASA-CASE-GSC-10879-1
N72-25174* # c 07		NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
		US-PATENT-CLASS-343-777			US-PATENT-CLASS-339-147R		N72-25414* # c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786		N72-25257* # c 09	NASA-CASE-MSC-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175FS
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
N72-25206* # c 08		NASA-CASE-KSC-10397			US-PATENT-CLASS-324-186		N72-25428* # c 14	NASA-CASE-HQN-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136		N72-25447* # c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885			US-PATENT-CLASS-117-107
N72-25207* # c 08		NASA-CASE-NPO-11161		N72-25258* # c 09	NASA-CASE-LAR-10253-1			US-PATENT-CLASS-117-211
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
N72-25208* # c 08		NASA-CASE-NPO-11338		N72-25259* # c 09	NASA-CASE-GSC-10695-1		N72-25448* # c 15	US-PATENT-3,649,356
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422			NASA-CASE-LEW-10450-1
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-0.58B
		US-PATENT-CLASS-179-15FD			US-PATENT-CLASS-29-198			US-PATENT-CLASS-75-206
		US-PATENT-CLASS-325-62			US-PATENT-3,664,874			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-332-21		N72-25260* # c 09	NASA-CASE-NPO-11283			US-PATENT-3,649,242
		US-PATENT-3,659,053			US-PATENT-APPL-SN-118270		N72-25450* # c 15	NASA-CASE-NPO-11202
N72-25209* # c 08		NASA-CASE-NPO-11194			US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-66004
		US-PATENT-APPL-SN-63532			US-PATENT-3,663,839			US-PATENT-CLASS-285-DIG.21
		US-PATENT-CLASS-343-12R		N72-25261* # c 09	NASA-CASE-ERC-10224			US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-14			US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-492			US-PATENT-CLASS-285-33
		US-PATENT-3,659,292			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-45M
N72-25210* # c 08		NASA-CASE-NPO-10636			US-PATENT-CLASS-29-498			US-PATENT-CLASS-339-91B
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-502			US-PATENT-3,656,781
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-589		N72-25451* # c 15	NASA-CASE-NPO-10606
		US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-29-628			US-PATENT-APPL-SN-8636
		US-PATENT-3,662,337			US-PATENT-3,665,589			US-PATENT-CLASS-251-360
N72-25247* # c 09		NASA-CASE-LAR-10163-1		N72-25262* # c 09	NASA-CASE-NPO-11078			US-PATENT-3,658,295
		US-PATENT-APPL-SN-73310			US-PATENT-APPL-SN-82280			NASA-CASE-LEW-10965-1
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-103		N72-25452* # c 15	US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-152
		US-PATENT-3,653,052			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-16R
N72-25248* # c 09		NASA-CASE-NPO-11342			US-PATENT-3,663,828			US-PATENT-CLASS-117-37
		US-PATENT-APPL-SN-89209		N72-25284* # c 11	NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-47R
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127			US-PATENT-CLASS-117-93.3
		US-PATENT-3,648,250			US-PATENT-3,649,462			US-PATENT-CLASS-204-157.18AG
N72-25249* # c 09		NASA-CASE-GSC-10656-1		N72-25287* # c 11	NASA-CASE-LAR-10546-1			US-PATENT-CLASS-204-44.9
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-250-65F
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A			US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648			US-PATENT-3,658,569
		US-PATENT-CLASS-323-17			US-PATENT-CLASS-52-655		N72-25453* # c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670			US-PATENT-APPL-SN-61535
		US-PATENT-3,621,372		N72-25288* # c 11	NASA-CASE-MFS-20434			US-PATENT-CLASS-187-1
N72-25250* # c 09		NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-20
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140			US-PATENT-CLASS-187-95
		US-PATENT-CLASS-315-135			US-PATENT-CLASS-73-161			US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758			US-PATENT-3,666,051
		US-PATENT-CLASS-330-2		N72-25292* # c 12	NASA-CASE-NPO-11556		N72-25454* # c 15	NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-169
		US-PATENT-3,659,148			US-PATENT-CLASS-310-11			US-PATENT-CLASS-52-173
N72-25251* # c 09		NASA-CASE-ERC-10048			US-PATENT-3,648,083			US-PATENT-CLASS-52-594
		US-PATENT-APPL-SN-10329		N72-25323* # c 13	NASA-CASE-NPO-11373			US-PATENT-3,665,669
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095		N72-25455* # c 15	NASA-CASE-NPO-11095

			US-PATENT-APPL-SN-19585	N72-25913* #	c 33	NASA-CASE-XMS-09690	N72-27412* #	c 14	NASA-CASE-MFS-20523
			US-PATENT-CLASS-239-424			US-PATENT-APPL-SN-853641			US-PATENT-APPL-SN-77786
			US-PATENT-CLASS-60-258			US-PATENT-CLASS-73-15R			US-PATENT-CLASS-73-103
			US-PATENT-CLASS-60-39.74A			US-PATENT-3,665,750			US-PATENT-CLASS-73-71.6
			US-PATENT-3,662,547			NASA-CASE-NPO-10753			US-PATENT-3,670,563
N72-25456* #	c 15		NASA-CASE-NPO-11222	N72-26031* #	c 03	US-PATENT-APPL-SN-844355	N72-27484* #	c 15	NASA-CASE-NPO-10721
			US-PATENT-APPL-SN-59893			US-PATENT-CLASS-136-202			US-PATENT-APPL-SN-59968
			US-PATENT-CLASS-310-68			US-PATENT-3,666,566			US-PATENT-CLASS-248-188.4
			US-PATENT-CLASS-310-80	N72-26371* #	c 15	NASA-CASE-NPO-10244			US-PATENT-3,669,393
			US-PATENT-CLASS-310-83			US-PATENT-APPL-SN-43327	N72-27485* #	c 15	NASA-CASE-XLA-09843
			US-PATENT-3,660,704			US-PATENT-CLASS-308-2A			US-PATENT-APPL-SN-60876
N72-25457* #	c 15		NASA-CASE-ERC-10325			US-PATENT-CLASS-73-136R			US-PATENT-CLASS-83-522
			US-PATENT-APPL-SN-43884			US-PATENT-3,664,185			US-PATENT-CLASS-83-562
			US-PATENT-CLASS-324-158D	N72-27053* #	c 03	NASA-CASE-GSC-10344-1			US-PATENT-CLASS-83-563
			US-PATENT-CLASS-324-158T			US-PATENT-APPL-SN-785078			US-PATENT-CLASS-83-588
			US-PATENT-3,665,307			US-PATENT-CLASS-136-89			US-PATENT-CLASS-83-8
N72-25485* #	c 16		NASA-CASE-ERC-10283			US-PATENT-3,672,999			US-PATENT-3,668,956
			US-PATENT-APPL-SN-39185	N72-27102* #	c 05	NASA-CASE-LAR-10365-1	N72-27728* #	c 23	NASA-CASE-ARC-10160-1
			US-PATENT-CLASS-331-94.5			US-PATENT-APPL-SN-3151			US-PATENT-APPL-SN-867842
			US-PATENT-CLASS-332-7.51			US-PATENT-CLASS-210-103			US-PATENT-CLASS-178-DIG.20
			US-PATENT-3,659,225			US-PATENT-CLASS-210-104			US-PATENT-CLASS-178-6.5
N72-25539* #	c 18		NASA-CASE-LEW-10424-2.2			US-PATENT-CLASS-210-110			US-PATENT-CLASS-350-138
			US-PATENT-APPL-SN-15222			US-PATENT-CLASS-210-137			US-PATENT-3,670,097
			US-PATENT-CLASS-75-DIG.1			US-PATENT-3,670,890	N72-27784* #	c 26	NASA-CASE-LAR-10836-1
			US-PATENT-CLASS-75-208	N72-27103* #	c 05	NASA-CASE-MS-13648			US-PATENT-APPL-SN-138227
			US-PATENT-CLASS-75-211			US-PATENT-APPL-SN-87222			US-PATENT-CLASS-350-161
			US-PATENT-CLASS-75-226			US-PATENT-CLASS-128-DIG.4			US-PATENT-3,671,105
			US-PATENT-3,653,882			US-PATENT-CLASS-128-2.1E	N72-27959* #	c 33	NASA-CASE-LAR-10800-1
N72-25540* #	c 18		NASA-CASE-ERC-10364			US-PATENT-CLASS-128-417			US-PATENT-APPL-SN-154094
			US-PATENT-APPL-SN-55537			US-PATENT-3,669,110			US-PATENT-CLASS-73-35
			US-PATENT-CLASS-161-127	N72-27144* #	c 06	NASA-CASE-NPO-10768-2			US-PATENT-3,670,559
			US-PATENT-CLASS-161-68			US-PATENT-APPL-SN-770398	N72-28025* #	c 03	NASA-CASE-NPO-10633
			US-PATENT-CLASS-161-7			US-PATENT-APPL-SN-99524			US-PATENT-APPL-SN-885521
			US-PATENT-CLASS-52-DIG.10			US-PATENT-CLASS-260-535H			US-PATENT-CLASS-165-20
			US-PATENT-CLASS-52-80			US-PATENT-CLASS-260-77.5AP			US-PATENT-CLASS-165-3
			US-PATENT-3,663,347			US-PATENT-3,671,497			US-PATENT-CLASS-62-93
N72-25541* #	c 18		NASA-CASE-ERC-10363	N72-27151* #	c 06	NASA-CASE-NPO-10767-2			US-PATENT-3,675,712
			US-PATENT-APPL-SN-57253			US-PATENT-APPL-SN-241061	N72-28225* #	c 09	NASA-CASE-MFS-20757
			US-PATENT-CLASS-161-127	N72-27226* #	c 09	NASA-CASE-LEW-10330-1			US-PATENT-APPL-SN-136006
			US-PATENT-CLASS-161-68			US-PATENT-APPL-SN-110402			US-PATENT-CLASS-339-176MF
			US-PATENT-CLASS-161-7			US-PATENT-CLASS-336-198			US-PATENT-CLASS-339-218M
			US-PATENT-CLASS-52-DIG.10			US-PATENT-CLASS-336-220			US-PATENT-CLASS-339-75MP
			US-PATENT-CLASS-52-80			US-PATENT-CLASS-336-60			US-PATENT-CLASS-339-94M
			US-PATENT-3,663,346			US-PATENT-3,648,209			US-PATENT-3,670,290
N72-25595* #	c 21		NASA-CASE-MS-13397-1	N72-27227* #	c 09	NASA-CASE-KSC-10644	N72-28240* #	c 10	NASA-CASE-ARC-10265-1
			US-PATENT-APPL-SN-59966			US-PATENT-APPL-SN-114849			US-PATENT-APPL-SN-64709
			US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-307-118			US-PATENT-CLASS-324-41
			US-PATENT-CLASS-244-23A			US-PATENT-CLASS-307-92			US-PATENT-CLASS-340-258
			US-PATENT-3,662,973			US-PATENT-CLASS-340-240			US-PATENT-3,676,772
N72-25619* #	c 23		NASA-CASE-NPO-10634			US-PATENT-3,673,424	N72-28241* #	c 10	NASA-CASE-GSC-10786-1
			US-PATENT-APPL-SN-112999	N72-27228* #	c 09	NASA-CASE-NPO-10542			US-PATENT-APPL-SN-773072
			US-PATENT-CLASS-62-475			US-PATENT-APPL-SN-767741			US-PATENT-CLASS-330-29
			US-PATENT-CLASS-62-6			US-PATENT-CLASS-310-4			US-PATENT-3,533,006
			US-PATENT-CLASS-62-80			US-PATENT-3,673,440	N72-28436* #	c 14	NASA-CASE-XLA-06683
			US-PATENT-CLASS-62-85	N72-27246* #	c 10	NASA-CASE-ERC-10015-2			US-PATENT-APPL-SN-10827
			US-PATENT-3,656,313			US-PATENT-APPL-SN-763744			US-PATENT-CLASS-33-15A
N72-25679* #	c 26		NASA-CASE-XER-07895			US-PATENT-APPL-SN-97343			US-PATENT-CLASS-33-75R
			US-PATENT-APPL-SN-651627			US-PATENT-CLASS-313-309			US-PATENT-3,675,332
			US-PATENT-CLASS-317-234J			US-PATENT-CLASS-313-336	N72-28437* #	c 14	NASA-CASE-ERC-10081
			US-PATENT-CLASS-317-235A			US-PATENT-CLASS-313-351			US-PATENT-APPL-SN-877990
			US-PATENT-CLASS-317-235AJ			US-PATENT-CLASS-315-36			US-PATENT-CLASS-325-363
			US-PATENT-CLASS-317-235R			US-PATENT-3,671,798			US-PATENT-CLASS-343-100ME
			US-PATENT-CLASS-331-107G	N72-27262* #	c 11	NASA-CASE-MFS-20620			US-PATENT-CLASS-343-112D
			US-PATENT-3,667,010			US-PATENT-APPL-SN-154935			US-PATENT-CLASS-73-355
N72-25680* #	c 26		NASA-CASE-ERC-10275			US-PATENT-CLASS-73-117.1			US-PATENT-3,665,467
			US-PATENT-APPL-SN-47061			US-PATENT-CLASS-73-432SD	N72-28438* #	c 14	NASA-CASE-XLA-04980-2
			US-PATENT-CLASS-324-92			US-PATENT-3,670,564			US-PATENT-APPL-SN-577548
			US-PATENT-CLASS-324-96	N72-27408* #	c 14	NASA-CASE-NPO-11147			US-PATENT-APPL-SN-763040
			US-PATENT-CLASS-340-324R			US-PATENT-APPL-SN-63195			US-PATENT-CLASS-148-187
			US-PATENT-CLASS-350-150			US-PATENT-CLASS-324-79R			US-PATENT-3,549,435
			US-PATENT-CLASS-350-160R			US-PATENT-CLASS-328-189	N72-28495* #	c 15	NASA-CASE-MFS-14405
			US-PATENT-3,667,039			US-PATENT-CLASS-331-44			US-PATENT-APPL-SN-73283
N72-25699* #	c 27		NASA-CASE-NPO-12000			US-PATENT-3,670,241			US-PATENT-CLASS-214-1CM
			US-PATENT-APPL-SN-74861	N72-27409* #	c 14	NASA-CASE-NPO-11201			US-PATENT-CLASS-74-469
			US-PATENT-CLASS-149-19			US-PATENT-APPL-SN-77220			US-PATENT-3,631,737
			US-PATENT-CLASS-149-20			US-PATENT-CLASS-250-203R	N72-28496* #	c 15	NASA-CASE-MFS-20433
			US-PATENT-CLASS-149-36			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-114847
			US-PATENT-CLASS-149-92			US-PATENT-CLASS-350-147			US-PATENT-CLASS-52-1
			US-PATENT-3,658,608			US-PATENT-CLASS-356-141			US-PATENT-CLASS-52-573
N72-25842* #	c 31		NASA-CASE-MS-12372-1			US-PATENT-CLASS-356-152			US-PATENT-3,675,376
			US-PATENT-APPL-SN-64391			US-PATENT-3,670,168	N72-28521* #	c 16	NASA-CASE-NPO-11437
			US-PATENT-CLASS-95-12.5	N72-27410* #	c 14	NASA-CASE-XLE-05230			US-PATENT-APPL-SN-63144
			US-PATENT-3,662,661			US-PATENT-APPL-SN-877717			US-PATENT-CLASS-330-4
N72-25877* #	c 32		NASA-CASE-LAR-10270-1			US-PATENT-CLASS-136-233			US-PATENT-CLASS-331-94
			US-PATENT-APPL-SN-60881			US-PATENT-3,671,329			US-PATENT-3,676,787
			US-PATENT-CLASS-73-100	N72-27411* #	c 14	NASA-CASE-MS-12293-1	N72-28535* #	c 17	NASA-CASE-XLE-06461-2
			US-PATENT-CLASS-73-15.6			US-PATENT-APPL-SN-59956			US-PATENT-APPL-SN-156778
			US-PATENT-3,665,751			US-PATENT-CLASS-250-205			US-PATENT-APPL-SN-853855
N72-25911* #	c 33		NASA-CASE-LEW-10359			US-PATENT-CLASS-315-151			US-PATENT-CLASS-266-24
			US-PATENT-APPL-SN-47063			US-PATENT-CLASS-315-156			US-PATENT-3,675,910
			US-PATENT-CLASS-102-105			US-PATENT-CLASS-315-158	N72-28536* #	c 17	NASA-CASE-XLE-03940-2
			US-PATENT-CLASS-60-200A			US-PATENT-CLASS-315-297			US-PATENT-APPL-SN-539255
			US-PATENT-CLASS-60-265			US-PATENT-CLASS-315-307			US-PATENT-APPL-SN-793657
			US-PATENT-CLASS-60-267			US-PATENT-CLASS-315-310			US-PATENT-CLASS-29-182.5
			US-PATENT-CLASS-62-467			US-PATENT-CLASS-315-311			US-PATENT-3,676,084
			US-PATENT-3,656,317			US-PATENT-3,670,202	N72-28761* #	c 26	NASA-CASE-NPO-11775

N72-28762* #	c 26	US-PATENT-APPL-SN-162230 US-PATENT-CLASS-29-570 US-PATENT-CLASS-317-230 US-PATENT-CLASS-317-261 US-PATENT-3,676,754 NASA-CASE-LAR-10294-1 US-PATENT-APPL-SN-796685 US-PATENT-CLASS-106-39 US-PATENT-CLASS-106-46 US-PATENT-CLASS-117-212 US-PATENT-CLASS-117-217 US-PATENT-CLASS-29-25.42 US-PATENT-3,649,353	N72-32487* #	c 15	NASA-CASE-LAR-10541-1 US-PATENT-APPL-SN-138229 US-PATENT-CLASS-118-49.1 US-PATENT-CLASS-204-298 US-PATENT-CLASS-219-121P US-PATENT-CLASS-219-273 US-PATENT-3,690,291	N73-12214* #	c 09	NASA-CASE-NPO-13091-1 US-PATENT-APPL-SN-290022
N72-29172* #	c 09	NASA-CASE-LAR-10511-1 US-PATENT-APPL-SN-41345 US-PATENT-CLASS-333-24R US-PATENT-CLASS-333-98P US-PATENT-CLASS-333-98R US-PATENT-3,676,809	N72-32688* #	c 25	NASA-CASE-MFS-20589 US-PATENT-APPL-SN-103077 US-PATENT-CLASS-313-231 US-PATENT-CLASS-315-111 US-PATENT-3,693,002	N73-12244* #	c 10	NASA-CASE-NPO-11631 US-PATENT-APPL-SN-123253 US-PATENT-CLASS-179-1P US-PATENT-CLASS-325-473 US-PATENT-CLASS-325-480 US-PATENT-3,700,812
N72-29464* #	c 14	NASA-CASE-ARC-10017-1 US-PATENT-APPL-SN-55536 US-PATENT-CLASS-250-41.9D US-PATENT-CLASS-250-71.5R US-PATENT-CLASS-313-356 US-PATENT-3,676,674	N72-33072* #	c 04	NASA-CASE-ERC-10338 US-PATENT-APPL-SN-50339 US-PATENT-CLASS-23-109 US-PATENT-3,679,360	N73-12264* #	c 11	NASA-CASE-LAR-10348-1 US-PATENT-APPL-SN-70032 US-PATENT-CLASS-73-147 US-PATENT-3,695,101
N72-29488* #	c 15	NASA-CASE-XLE-10326-2 US-PATENT-APPL-SN-54540 US-PATENT-APPL-SN-723465 US-PATENT-CLASS-277-25 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-74 US-PATENT-3,675,935	N72-33096* #	c 05	NASA-CASE-MSC-13540-1 US-PATENT-APPL-SN-68023 US-PATENT-CLASS-99-80PS US-PATENT-3,692,533	N73-12265* #	c 11	NASA-CASE-NPO-10890 US-PATENT-APPL-SN-99903 US-PATENT-CLASS-137-559 US-PATENT-CLASS-219-203 US-PATENT-CLASS-219-522 US-PATENT-CLASS-52-171 US-PATENT-3,696,833
N72-31140* #	c 06	NASA-CASE-MSC-13335-1 US-PATENT-APPL-SN-55806 US-PATENT-CLASS-55-16 US-PATENT-CLASS-55-55 US-PATENT-3,678,654	N72-33146* #	c 07	NASA-CASE-MSC-12259-2 US-PATENT-APPL-SN-61895 US-PATENT-APPL-SN-853763 US-PATENT-CLASS-325-373 US-PATENT-3,694,753	N73-12444* #	c 14	NASA-CASE-GSC-10903-1 US-PATENT-APPL-SN-114846 US-PATENT-CLASS-250-41.9G US-PATENT-CLASS-250-41.9S US-PATENT-CLASS-73-421.5 US-PATENT-3,700,893
N72-31141* #	c 06	NASA-CASE-ARC-10308-1 US-PATENT-APPL-SN-134568 US-PATENT-CLASS-250-43.5R US-PATENT-CLASS-356-51 US-PATENT-3,679,899	N72-33172* #	c 08	NASA-CASE-NPO-11630 US-PATENT-APPL-SN-143078 US-PATENT-CLASS-179-15.55R US-PATENT-3,694,581	N73-12445* #	c 14	NASA-CASE-LAR-10728-1 US-PATENT-APPL-SN-112998 US-PATENT-CLASS-250-83.3H US-PATENT-CLASS-250-83.3R US-PATENT-CLASS-250-83R US-PATENT-3,700,897
N72-31226* #	c 08	NASA-CASE-NPO-11016 US-PATENT-APPL-SN-889584 US-PATENT-CLASS-235-150.1 US-PATENT-CLASS-235-151.1 US-PATENT-CLASS-235-92MT US-PATENT-CLASS-323-19 US-PATENT-CLASS-340-347AD US-PATENT-3,681,581	N72-33204* #	c 09	NASA-CASE-NPO-11129 US-PATENT-APPL-SN-883523 US-PATENT-CLASS-307-262 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-155 US-PATENT-CLASS-328-24 US-PATENT-3,621,406	N73-12446* #	c 14	NASA-CASE-NPO-11239 US-PATENT-APPL-SN-89211 US-PATENT-CLASS-356-106 US-PATENT-CLASS-356-114 US-PATENT-3,700,334
N72-31235* #	c 09	NASA-CASE-ERC-10214 US-PATENT-APPL-SN-863914 US-PATENT-CLASS-343-770 US-PATENT-CLASS-343-771 US-PATENT-CLASS-343-786 US-PATENT-CLASS-343-797 US-PATENT-CLASS-343-853 US-PATENT-3,680,142	N72-33205* #	c 09	NASA-CASE-GSC-10835-1 US-PATENT-APPL-SN-116778 US-PATENT-CLASS-317-101A US-PATENT-CLASS-317-235 US-PATENT-CLASS-317-235A US-PATENT-CLASS-317-235AJ US-PATENT-3,694,700	N73-12447* #	c 14	NASA-CASE-NPO-11493 US-PATENT-APPL-SN-151413 US-PATENT-CLASS-136-224 US-PATENT-3,700,503
N72-31273* #	c 10	NASA-CASE-KSC-10647-1 US-PATENT-APPL-SN-774691 US-PATENT-CLASS-178-7.5E US-PATENT-CLASS-315-22R US-PATENT-CLASS-315-30R US-PATENT-CLASS-330-27R US-PATENT-3,678,191	N72-33230* #	c 10	NASA-CASE-GSC-11340-1 US-PATENT-APPL-SN-107379 US-PATENT-CLASS-330-12 US-PATENT-CLASS-331-115 US-PATENT-CLASS-331-116R US-PATENT-CLASS-333-80T US-PATENT-3,693,105	N73-12486* #	c 15	NASA-CASE-KSC-10615 US-PATENT-APPL-SN-103078 US-PATENT-CLASS-244-15B US-PATENT-CLASS-244-135 US-PATENT-CLASS-62-45 US-PATENT-CLASS-62-7 US-PATENT-3,697,021
N72-31446* #	c 14	NASA-CASE-ERC-10087-2 US-PATENT-APPL-SN-738315 US-PATENT-APPL-SN-91642 US-PATENT-CLASS-29-588 US-PATENT-CLASS-317-234D US-PATENT-CLASS-317-234G US-PATENT-CLASS-317-235M US-PATENT-CLASS-317-235R US-PATENT-3,686,542	N72-33377* #	c 14	NASA-CASE-MFS-20760 US-PATENT-APPL-SN-99174 US-PATENT-CLASS-73-141AB US-PATENT-CLASS-73-85 US-PATENT-3,693,418	N73-12487* #	c 15	NASA-CASE-FRC-10019 US-PATENT-APPL-SN-880398 US-PATENT-CLASS-204-192 US-PATENT-3,700,575
N72-31483* #	c 15	NASA-CASE-LAR-10061-1 US-PATENT-APPL-SN-104047 US-PATENT-CLASS-251-331 US-PATENT-CLASS-251-86 US-PATENT-3,680,830	N72-33476* #	c 15	NASA-CASE-XGS-07805 US-PATENT-APPL-SN-104884 US-PATENT-CLASS-308-10 US-PATENT-3,694,041	N73-12488* #	c 15	NASA-CASE-ARC-10345-1 US-PATENT-APPL-SN-193671 US-PATENT-CLASS-287-85R US-PATENT-CLASS-308-2A US-PATENT-CLASS-74-5F US-PATENT-3,700,291
N72-31637* #	c 21	NASA-CASE-GSC-10945-1 US-PATENT-APPL-SN-75431 US-PATENT-CLASS-60-23 US-PATENT-CLASS-60-26 US-PATENT-3,678,685	N72-33477* #	c 15	NASA-CASE-NPO-11340 US-PATENT-APPL-SN-147997 US-PATENT-CLASS-137-13 US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-60-1 US-PATENT-CLASS-60-36 US-PATENT-3,693,346	N73-12489* #	c 15	NASA-CASE-MSC-12357 US-PATENT-APPL-SN-662763 US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-28 US-PATENT-CLASS-264-36 US-PATENT-CLASS-264-40 US-PATENT-3,697,630
N72-32169* #	c 07	NASA-CASE-NPO-11361 US-PATENT-APPL-SN-112988 US-PATENT-CLASS-343-781 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-915 US-PATENT-3,680,144	N72-33681* #	c 24	NASA-CASE-LEW-10518-1 US-PATENT-APPL-SN-863280 US-PATENT-CLASS-176-11 US-PATENT-3,694,313	N73-12492* #	c 15	NASA-CASE-XLA-8914 US-PATENT-APPL-SN-810576
N72-32452* #	c 14	NASA-CASE-MFS-15162 US-PATENT-APPL-SN-100639 US-PATENT-CLASS-350-79 US-PATENT-CLASS-356-241 US-PATENT-3,694,094	N72-33696* #	c 25	NASA-CASE-GSC-11291-1 US-PATENT-APPL-SN-102412 US-PATENT-CLASS-250-83.6R US-PATENT-3,694,655	N73-12495* #	c 15	NASA-CASE-NPO-13086-1 US-PATENT-APPL-SN-292477
			N73-12175* #	c 08	NASA-CASE-NPO-11406 US-PATENT-APPL-SN-95183 US-PATENT-CLASS-235-152 US-PATENT-CLASS-331-78 US-PATENT-CLASS-340-146.1AL US-PATENT-3,700,869	N73-12547* #	c 17	NASA-CASE-LAR-10539-1 US-PATENT-APPL-SN-136085 US-PATENT-CLASS-23-230R US-PATENT-3,701,631
			N73-12176* #	c 08	NASA-CASE-KSC-10595 US-PATENT-APPL-SN-98772 US-PATENT-CLASS-235-155 US-PATENT-CLASS-340-347DD US-PATENT-3,697,733	N73-12604* #	c 18	NASA-CASE-MFS-20408 US-PATENT-APPL-SN-71048 US-PATENT-CLASS-161-93 US-PATENT-3,700,538
			N73-12177* #	c 08	NASA-CASE-NPO-11371 US-PATENT-APPL-SN-117575 US-PATENT-CLASS-340-146.1AQ US-PATENT-CLASS-340-146.1AV US-PATENT-3,697,950	N73-12884* #	c 30	NASA-CASE-MSC-12391 US-PATENT-APPL-SN-106465 US-PATENT-CLASS-244-155 US-PATENT-3,700,193
			N73-12211* #	c 09	NASA-CASE-ERC-10412-1 US-PATENT-APPL-SN-72024 US-PATENT-CLASS-343-11R US-PATENT-CLASS-343-11VB US-PATENT-CLASS-343-5DP US-PATENT-3,696,418	N73-13008* #	c 02	NASA-CASE-GSC-11077-1 US-PATENT-APPL-SN-127618 US-PATENT-CLASS-244-32 US-PATENT-3,698,667
						N73-13114* #	c 05	NASA-CASE-MSC-13604-1 US-PATENT-APPL-SN-78717 US-PATENT-CLASS-128-2N US-PATENT-CLASS-273-1E US-PATENT-CLASS-35-22R US-PATENT-3,698,385
						N73-13128* #	c 06	NASA-CASE-GSC-11214-1 US-PATENT-APPL-SN-115134 US-PATENT-CLASS-117-35R US-PATENT-3,702,775
						N73-13129* #	c 06	NASA-CASE-XNP-08124-2 US-PATENT-APPL-SN-97829

		US-PATENT-CLASS-75-66 US-PATENT-3,702,762			US-PATENT-CLASS-91-448 US-PATENT-3,702,575			US-PATENT-CLASS-219-101 US-PATENT-CLASS-219-119 US-PATENT-CLASS-29-203V US-PATENT-3,705,288
N73-13149* #	c 07	NASA-CASE-NPO-11302-1 US-PATENT-APPL-SN-70967 US-PATENT-CLASS-178-69.5 US-PATENT-CLASS-235-150.53 US-PATENT-CLASS-235-181 US-PATENT-CLASS-325-325 US-PATENT-CLASS-340-146.1 US-PATENT-3,701,894	N73-13467* #	c 15	NASA-CASE-NPO-11369 US-PATENT-APPL-SN-129072 US-PATENT-CLASS-60-1 US-PATENT-CLASS-60-23 US-PATENT-CLASS-60-37 US-PATENT-3,702,532	N73-14469* #	c 15	NASA-CASE-GSC-10791-1 US-PATENT-APPL-SN-84289 US-PATENT-CLASS-174-52S US-PATENT-CLASS-29-589 US-PATENT-CLASS-29-591 US-PATENT-CLASS-317-234A US-PATENT-CLASS-317-234G US-PATENT-3,705,255
N73-13187* #	c 08	NASA-CASE-GSC-10975-1 US-PATENT-APPL-SN-100996 US-PATENT-CLASS-340-172.5 US-PATENT-3,702,463	N73-13489* #	c 16	NASA-CASE-HQN-10654-1 US-PATENT-APPL-SN-182978 US-PATENT-CLASS-324-5R US-PATENT-CLASS-331-94 US-PATENT-3,702,972	N73-14584* #	c 18	NASA-CASE-LAR-10894-1 US-PATENT-APPL-SN-189375 US-PATENT-CLASS-106-39R US-PATENT-CLASS-106-55 US-PATENT-CLASS-106-58 US-PATENT-CLASS-106-63 US-PATENT-CLASS-264-DIG.36 US-PATENT-CLASS-264-65 US-PATENT-3,706,583
N73-13208* #	c 09	NASA-CASE-LEW-11192-1 US-PATENT-APPL-SN-198285 US-PATENT-CLASS-315-3.5 US-PATENT-CLASS-315-5.38 US-PATENT-3,702,951	N73-13562* #	c 18	NASA-CASE-ARC-10196-1 US-PATENT-APPL-SN-115082 US-PATENT-CLASS-260-2.5F US-PATENT-3,702,841	N73-14692* #	c 21	NASA-CASE-ERC-10392 US-PATENT-APPL-SN-36534 US-PATENT-CLASS-340-27AT US-PATENT-3,706,970
N73-13209* #	c 09	NASA-CASE-XLA-05099 US-PATENT-APPL-SN-98798 US-PATENT-CLASS-235-152 US-PATENT-CLASS-307-207 US-PATENT-CLASS-307-215 US-PATENT-3,700,868	N73-13643* #	c 21	NASA-CASE-HQN-10703 US-PATENT-APPL-SN-156724 US-PATENT-CLASS-340-27NA US-PATENT-CLASS-340-33 US-PATENT-CLASS-340-97 US-PATENT-CLASS-343-112CA US-PATENT-3,699,511	N73-14853* #	c 31	NASA-CASE-GSC-10590-1 US-PATENT-APPL-SN-130353 US-PATENT-CLASS-102-49.5 US-PATENT-3,706,281
N73-13235* #	c 10	NASA-CASE-KSC-10003 US-PATENT-APPL-SN-60883 US-PATENT-CLASS-178-DIG.6 US-PATENT-CLASS-178-6 US-PATENT-CLASS-307-242 US-PATENT-CLASS-307-259 US-PATENT-CLASS-328-104 US-PATENT-CLASS-328-154 US-PATENT-3,702,898	N73-13644* #	c 21	NASA-CASE-NPO-11481 US-PATENT-APPL-SN-134571 US-PATENT-CLASS-179-100.2A US-PATENT-CLASS-340-174.1R US-PATENT-CLASS-346-138 US-PATENT-CLASS-346-74MD US-PATENT-CLASS-74-5.22 US-PATENT-3,697,968	N73-14854* #	c 31	NASA-CASE-MSC-12433 US-PATENT-APPL-SN-103551 US-PATENT-CLASS-244-155 US-PATENT-3,702,688
N73-13257* #	c 11	NASA-CASE-LAR-10574-1 US-PATENT-APPL-SN-66206 US-PATENT-CLASS-244-1SS US-PATENT-3,698,659	N73-13660* #	c 23	NASA-CASE-MFS-20809 US-PATENT-APPL-SN-173185 US-PATENT-CLASS-315-169R US-PATENT-CLASS-315-169TV US-PATENT-CLASS-317-101A US-PATENT-3,700,961	N73-14855* #	c 31	NASA-CASE-NPO-10680 US-PATENT-APPL-SN-104048 US-PATENT-CLASS-74-2 US-PATENT-3,706,230
N73-13415* #	c 14	NASA-CASE-LAR-10855-1 US-PATENT-APPL-SN-166541 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-212 US-PATENT-3,699,811	N73-13661* #	c 23	NASA-CASE-MSC-12404-1 US-PATENT-APPL-SN-142662 US-PATENT-CLASS-356-106S US-PATENT-3,702,735	N73-15235* #	c 09	NASA-CASE-NPO-12106 US-PATENT-APPL-SN-175881 US-PATENT-CLASS-317-234V US-PATENT-CLASS-317-235AG US-PATENT-CLASS-317-235K US-PATENT-CLASS-331-107G US-PATENT-CLASS-331-177R US-PATENT-CLASS-331-90 US-PATENT-3,694,771
N73-13416* #	c 14	NASA-CASE-GSC-11302-1 US-PATENT-APPL-SN-166650 US-PATENT-CLASS-73-71.6 US-PATENT-3,699,807	N73-13662* #	c 23	NASA-CASE-MFS-20243 US-PATENT-APPL-SN-59894 US-PATENT-CLASS-250-51.5 US-PATENT-CLASS-250-52 US-PATENT-3,702,933	N73-16106* #	c 06	NASA-CASE-LAR-10668-1 US-PATENT-APPL-SN-172459 US-PATENT-CLASS-23-232E US-PATENT-CLASS-23-232R US-PATENT-CLASS-23-254E US-PATENT-CLASS-23-254R US-PATENT-CLASS-250-71R US-PATENT-CLASS-250-83UV US-PATENT-3,709,663
N73-13417* #	c 14	NASA-CASE-XLE-05230-2 US-PATENT-APPL-SN-147099 US-PATENT-APPL-SN-877717 US-PATENT-CLASS-136-233 US-PATENT-CLASS-29-573 US-PATENT-CLASS-29-624 US-PATENT-3,699,645	N73-13773* #	c 28	NASA-CASE-LEW-10374-1 US-PATENT-APPL-SN-107380 US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-60-211 US-PATENT-CLASS-60-240 US-PATENT-CLASS-60-243 US-PATENT-3,702,536	N73-16121* #	c 07	NASA-CASE-NPO-11572 US-PATENT-APPL-SN-125234 US-PATENT-CLASS-179-15AN US-PATENT-CLASS-179-15BC US-PATENT-CLASS-325-619 US-PATENT-CLASS-343-200 US-PATENT-3,710,257
N73-13418* #	c 14	NASA-CASE-MFS-14216 US-PATENT-APPL-SN-50208 US-PATENT-CLASS-137-487.5 US-PATENT-CLASS-137-81 US-PATENT-CLASS-92-49 US-PATENT-3,698,412	N73-13898* #	c 31	NASA-CASE-LAR-10549-1 US-PATENT-APPL-SN-108824 US-PATENT-CLASS-244-139 US-PATENT-CLASS-60-291 US-PATENT-3,700,192	N73-16205* #	c 10	NASA-CASE-NPO-11282 US-PATENT-APPL-SN-101354 US-PATENT-CLASS-325-346 US-PATENT-CLASS-325-419 US-PATENT-3,710,261
N73-13420* #	c 14	NASA-CASE-NPO-11418-1 US-PATENT-APPL-SN-193947 US-PATENT-CLASS-333-817 US-PATENT-CLASS-333-98R US-PATENT-3,702,979	N73-13921* #	c 32	NASA-CASE-MSC-12233-2 US-PATENT-APPL-SN-107298 US-PATENT-CLASS-229-DIG.11 US-PATENT-CLASS-52-284 US-PATENT-CLASS-52-594 US-PATENT-3,702,520	N73-16206* #	c 10	NASA-CASE-ERC-10285 US-PATENT-APPL-SN-55333 US-PATENT-CLASS-331-45 US-PATENT-CLASS-343-100R US-PATENT-CLASS-343-100SA US-PATENT-CLASS-343-853 US-PATENT-3,710,329
N73-13435* #	c 14	NASA-CASE-GSC-11533-1 US-PATENT-APPL-SN-305013	N73-14130* #	c 07	NASA-CASE-NPO-11661 US-PATENT-APPL-SN-200682 US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-915 US-PATENT-3,705,406	N73-16483* #	c 14	NASA-CASE-ERC-10226-1 US-PATENT-APPL-SN-124909 US-PATENT-APPL-SN-808822 US-PATENT-CLASS-250-209 US-PATENT-CLASS-250-215 US-PATENT-CLASS-250-217 US-PATENT-CLASS-315-153 US-PATENT-CLASS-340-25 US-PATENT-CLASS-340-27R US-PATENT-3,708,671
N73-13462* #	c 15	NASA-CASE-NPO-11479 US-PATENT-APPL-SN-170440 US-PATENT-CLASS-137-608 US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-138-45 US-PATENT-CLASS-251-122 US-PATENT-3,700,005	N73-14214* #	c 09	NASA-CASE-ARC-10467-1 US-PATENT-APPL-SN-212028 US-PATENT-CLASS-250-205 US-PATENT-CLASS-250-211J US-PATENT-CLASS-250-217SS US-PATENT-CLASS-307-310 US-PATENT-CLASS-307-311 US-PATENT-3,705,316	N73-16484* #	c 14	NASA-CASE-LAR-10739-1 US-PATENT-APPL-SN-134567 US-PATENT-CLASS-250-217F US-PATENT-CLASS-340-228S US-PATENT-CLASS-340-418 US-PATENT-3,708,674
N73-13463* #	c 15	NASA-CASE-MFS-20317 US-PATENT-APPL-SN-67730 US-PATENT-CLASS-173-131 US-PATENT-CLASS-72-447 US-PATENT-CLASS-72-476 US-PATENT-3,699,799	N73-14427* #	c 14	NASA-CASE-NPO-10758 US-PATENT-APPL-SN-81096 US-PATENT-CLASS-352-169 US-PATENT-CLASS-95-12.5 US-PATENT-CLASS-95-59 US-PATENT-3,704,659	N73-16536* #	c 16	NASA-CASE-LAR-10311-1 US-PATENT-APPL-SN-31702 US-PATENT-CLASS-250-199 US-PATENT-CLASS-340-171 US-PATENT-CLASS-350-293 US-PATENT-3,710,122
N73-13464* #	c 15	NASA-CASE-NPO-10812 US-PATENT-APPL-SN-129073 US-PATENT-CLASS-425-113 US-PATENT-CLASS-425-133 US-PATENT-CLASS-425-176 US-PATENT-CLASS-72-258 US-PATENT-3,698,848	N73-14428* #	c 14	NASA-CASE-NPO-10764-1 US-PATENT-APPL-SN-836280 US-PATENT-CLASS-252-408 US-PATENT-3,700,603			
N73-13465* #	c 15	NASA-CASE-LEW-10805-1 US-PATENT-APPL-SN-29917 US-PATENT-CLASS-148-11.5R US-PATENT-3,702,791	N73-14429* #	c 14	NASA-CASE-NPO-11387 US-PATENT-APPL-SN-142719 US-PATENT-CLASS-73-57 US-PATENT-CLASS-73-60 US-PATENT-3,706,221			
N73-13466* #	c 15	NASA-CASE-MFS-20944 US-PATENT-APPL-SN-148756 US-PATENT-CLASS-91-363A	N73-14468* #	c 15	NASA-CASE-LAR-10103-1 US-PATENT-APPL-SN-103230			

N73-16764* #	c 27	NASA-CASE-NPO-12015 US-PATENT-APPL-SN-74862 US-PATENT-CLASS-149-19 US-PATENT-CLASS-149-36 US-PATENT-3,708,359	N73-20176* #	c 07	US-PATENT-CLASS-73-170R US-PATENT-3,715,660 NASA-CASE-KSC-10521 US-PATENT-APPL-SN-212921 US-PATENT-CLASS-340-146.1C US-PATENT-CLASS-340-147R US-PATENT-CLASS-340-163 US-PATENT-3,715,723	N73-24472* #	c 14	NASA-CASE-LEW-11072-1 US-PATENT-APPL-SN-104885 US-PATENT-CLASS-136-225 US-PATENT-3,729,343
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		US-PATENT-CLASS-117-228			US-PATENT-CLASS-317-158			US-PATENT-3,395,565
		US-PATENT-CLASS-161-214			US-PATENT-3,198,994	N73-30391* #	c 14	NASA-CASE-XLA-05087
		US-PATENT-CLASS-161-227	N73-30078* #	c 05	NASA-CASE-MFS-21010-1			US-PATENT-APPL-SN-459407
		US-PATENT-CLASS-260-30.2			US-PATENT-APPL-SN-251609			US-PATENT-CLASS-315-111
		US-PATENT-CLASS-260-30.8DS			US-PATENT-CLASS-73-379			US-PATENT-3,394,286
		US-PATENT-CLASS-260-32.6N			US-PATENT-3,750,479	N73-30392* #	c 14	NASA-CASE-MFS-21441-1
		US-PATENT-CLASS-260-33.4R	N73-30097* #	c 06	NASA-CASE-LAR-10670-1			US-PATENT-APPL-SN-231662
		US-PATENT-CLASS-260-33.6R			US-PATENT-APPL-SN-59892			US-PATENT-CLASS-250-394
		US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-149-1			US-PATENT-CLASS-250-518
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-149-36			US-PATENT-3,752,986
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-252-301.4	N73-30393* #	c 14	NASA-CASE-GSC-11487-1
		US-PATENT-CLASS-260-78UA			US-PATENT-CLASS-252-305			US-PATENT-APPL-SN-193814
		US-PATENT-3,745,149			US-PATENT-CLASS-60-215			US-PATENT-CLASS-250-203
N73-28012* #	c 07	NASA-CASE-NPO-11593-1	N73-30098* #	c 06	US-PATENT-3,751,913			US-PATENT-CLASS-350-199
		US-PATENT-APPL-SN-172807			NASA-CASE-MFS-21040-1			US-PATENT-CLASS-350-204
		US-PATENT-CLASS-179-15FS			US-PATENT-APPL-SN-183240			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-325-419			US-PATENT-CLASS-260-485F			US-PATENT-3,752,559
		US-PATENT-CLASS-329-122			US-PATENT-3,752,847	N73-30394* #	c 14	NASA-CASE-LAR-10000
		US-PATENT-3,745,255	N73-30099* #	c 06	NASA-CASE-MFS-10512			US-PATENT-APPL-SN-613235
N73-28013* #	c 07	NASA-CASE-GSC-11046-1			US-PATENT-APPL-SN-606027			US-PATENT-CLASS-73-398
		US-PATENT-APPL-SN-182399			US-PATENT-CLASS-260-77.5			US-PATENT-3,446,075
		US-PATENT-CLASS-343-725			US-PATENT-3,463,761	N73-30395* #	c 14	NASA-CASE-LAR-10623-1
		US-PATENT-CLASS-343-729	N73-30100* #	c 06	NASA-CASE-MFS-10506			US-PATENT-APPL-SN-214086
		US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-606036			US-PATENT-CLASS-15-415
		US-PATENT-CLASS-343-803			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-73-28
		US-PATENT-CLASS-343-893			US-PATENT-3,463,762			US-PATENT-CLASS-73-421.5R
		US-PATENT-3,747,111	N73-30101* #	c 06	NASA-CASE-MFS-10507			US-PATENT-3,748,905
N73-28045* #	c 08	NASA-CASE-XNP-00477			US-PATENT-APPL-SN-605994	N73-30457* #	c 15	NASA-CASE-GSC-11149-1
		US-PATENT-APPL-SN-175497			US-PATENT-CLASS-260-615			US-PATENT-APPL-SN-152849
		US-PATENT-CLASS-340-347			US-PATENT-3,452,103			US-PATENT-CLASS-254-29A
		US-PATENT-3,219,997	N73-30102* #	c 06	NASA-CASE-MFS-11492			US-PATENT-CLASS-29-452
N73-28083* #	c 09	NASA-CASE-GSC-11215-1			US-PATENT-APPL-SN-707440			US-PATENT-CLASS-81-57.38
		US-PATENT-APPL-SN-114873			US-PATENT-CLASS-260-2			US-PATENT-3,749,362
		US-PATENT-CLASS-29-628			US-PATENT-3,577,356	N73-30458* #	c 15	NASA-CASE-LEW-11087-1
		US-PATENT-CLASS-29-629	N73-30103* #	c 06	NASA-CASE-MFS-10509			US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-29-630			US-PATENT-APPL-SN-605964			US-PATENT-CLASS-308-188
		US-PATENT-CLASS-29-630A			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-308-193
		US-PATENT-3,744,128			US-PATENT-3,475,384			US-PATENT-3,751,123
N73-28084* #	c 09	NASA-CASE-XNP-03623	N73-30113* #	c 07	NASA-CASE-NPO-11628-1	N73-30459* #	c 15	NASA-CASE-MSC-13587-1
		US-PATENT-APPL-SN-471154			US-PATENT-APPL-SN-207211			US-PATENT-APPL-SN-206698
		US-PATENT-CLASS-176-69.5			US-PATENT-CLASS-325-420			US-PATENT-CLASS-137-516.27
		US-PATENT-3,402,265			US-PATENT-CLASS-325-422			US-PATENT-CLASS-137-535
N73-28144* #	c 12	NASA-CASE-LAR-10612-1			US-PATENT-CLASS-329-120			US-PATENT-3,749,123
		US-PATENT-APPL-SN-233173			US-PATENT-3,746,998	N73-30460* #	c 15	NASA-CASE-HQN-10638-1
		US-PATENT-CLASS-73-147	N73-30115* #	c 07	NASA-CASE-KSC-10654-1			US-PATENT-APPL-SN-212977
		US-PATENT-3,744,305			US-PATENT-APPL-SN-250766			US-PATENT-CLASS-188-1C
N73-28486* #	c 14	NASA-CASE-NPO-11749			US-PATENT-CLASS-178-DIG.23			US-PATENT-CLASS-297-386
		US-PATENT-APPL-SN-175267			US-PATENT-CLASS-178-6.6DD			US-PATENT-3,749,205
		US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-6.8	N73-30476* #	c 16	NASA-CASE-MFS-20823-1
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-179-15BS			US-PATENT-APPL-SN-175981
		US-PATENT-3,737,762			US-PATENT-3,749,831			US-PATENT-CLASS-350-3.5
N73-28487* #	c 14	NASA-CASE-XLA-08916-2	N73-30135* #	c 08	NASA-CASE-NPO-10817-1			US-PATENT-CLASS-356-108
		US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-82649			US-PATENT-CLASS-356-109
		US-PATENT-APPL-SN-97472			US-PATENT-CLASS-250-229			US-PATENT-3,744,912
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-250-237R	N73-30532* #	c 18	NASA-CASE-ERC-10339-1
		US-PATENT-CLASS-73-432R			US-PATENT-CLASS-250-239			US-PATENT-APPL-SN-43883
		US-PATENT-3,744,320			US-PATENT-3,745,352			US-PATENT-CLASS-156-285
N73-28488* #	c 14	NASA-CASE-LEW-11159-1	N73-30181* #	c 09	NASA-CASE-MFS-21214-1			US-PATENT-3,745,082
		US-PATENT-APPL-SN-104346			US-PATENT-APPL-SN-235269	N73-30640* #	c 21	NASA-CASE-GSC-10890-1
		US-PATENT-CLASS-250-336			US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-111998
		US-PATENT-CLASS-307-308			US-PATENT-CLASS-315-248			US-PATENT-CLASS-244-15A
		US-PATENT-3,745,357			US-PATENT-CLASS-315-324			US-PATENT-CLASS-250-203R
N73-28489* #	c 14	NASA-CASE-GSC-11074-1			US-PATENT-3,745,410			US-PATENT-CLASS-250-209
		US-PATENT-APPL-SN-198362	N73-30185* #	c 09	NASA-CASE-NPO-11738-1			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-34-155			US-PATENT-APPL-SN-235295			US-PATENT-3,752,993
		US-PATENT-CLASS-34-160			US-PATENT-CLASS-335-296	N73-30641* #	c 21	NASA-CASE-LAR-10717-1
		US-PATENT-CLASS-34-162			US-PATENT-CLASS-335-297			US-PATENT-APPL-SN-242028
		US-PATENT-3,744,148			US-PATENT-3,750,067			US-PATENT-CLASS-343-112CA
N73-28490* #	c 14	NASA-CASE-GSC-11444-1	N73-30205* #	c 10	NASA-CASE-NPO-11307-1			US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-229128			US-PATENT-APPL-SN-169671			US-PATENT-3,750,168
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-340-277	N73-30665* #	c 23	NASA-CASE-LEW-11326-1
		US-PATENT-CLASS-250-209			US-PATENT-CLASS-340-279			US-PATENT-APPL-SN-192970
		US-PATENT-CLASS-250-214R			US-PATENT-3,750,131			US-PATENT-CLASS-431-173
		US-PATENT-CLASS-356-141			NASA-CASE-MFS-20658-1			US-PATENT-CLASS-431-9
		US-PATENT-3,744,913	N73-30386* #	c 14	US-PATENT-APPL-SN-205675			US-PATENT-CLASS-60-39.65
N73-28491* #	c 14	NASA-CASE-XNP-05231			US-PATENT-CLASS-324-79D			US-PATENT-CLASS-60-39.66
		US-PATENT-APPL-SN-524746			US-PATENT-CLASS-328-129			US-PATENT-CLASS-60-39.72
		US-PATENT-CLASS-250-51.5			US-PATENT-CLASS-328-134			US-PATENT-CLASS-60-39.74R
		US-PATENT-3,440,419			US-PATENT-CLASS-328-48			US-PATENT-3,748,853
N73-28515* #	c 15	NASA-CASE-LEW-10533-1	N73-30388* #	c 14	US-PATENT-3,745,475	N73-30666* #	c 23	NASA-CASE-GSC-11296-1
		US-PATENT-APPL-SN-134658			NASA-CASE-NPO-11291-1			US-PATENT-APPL-SN-228190
		US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-116790			US-PATENT-CLASS-350-162SF

		US-PATENT-CLASS-350-55			US-PATENT-CLASS-331-94.5			N73-32360* #	c 15	NASA-CASE-GSC-11163-1
		US-PATENT-3,752,564			US-PATENT-3,753,148					US-PATENT-APPL-SN-205047
N73-30829* #	c 31	NASA-CASE-GSC-11018-1	N73-32112* #	c 09	NASA-CASE-ARC-10330-1					US-PATENT-CLASS-117-105
		US-PATENT-APPL-SN-244523			US-PATENT-APPL-SN-151412					US-PATENT-CLASS-117-105.5
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-317-235R					US-PATENT-CLASS-117-130R
		US-PATENT-CLASS-165-32			US-PATENT-CLASS-317-235WW					US-PATENT-CLASS-117-138.8R
		US-PATENT-CLASS-165-47			US-PATENT-3,760,239					US-PATENT-CLASS-117-151
		US-PATENT-CLASS-165-96	N73-32143* #	c 10	NASA-CASE-MSC-13746-1					US-PATENT-CLASS-117-160R
		US-PATENT-CLASS-244-1SS			US-PATENT-APPL-SN-226476					US-PATENT-CLASS-117-66
		US-PATENT-3,749,156			US-PATENT-CLASS-178-18					US-PATENT-CLASS-29-527.2
N73-31988* #	c 03	NASA-CASE-MSC-12396-1			US-PATENT-3,758,718					US-PATENT-CLASS-72-53
		US-PATENT-APPL-SN-258331	N73-32144* #	c 10	NASA-CASE-NPO-11703-1			N73-32361* #	c 15	US-PATENT-3,754,976
		US-PATENT-CLASS-307-18			US-PATENT-APPL-SN-223560					NASA-CASE-XNP-01188
		US-PATENT-CLASS-307-28			US-PATENT-CLASS-340-166					US-PATENT-APPL-SN-155596
		US-PATENT-CLASS-307-29			US-PATENT-CLASS-340-173					US-PATENT-CLASS-317-158
		US-PATENT-CLASS-307-38			US-PATENT-CLASS-340-223			N73-32362* #	c 15	US-PATENT-3,262,025
		US-PATENT-3,755,686			US-PATENT-CLASS-340-415					NASA-CASE-XNP-07169
N73-32011* #	c 05	NASA-CASE-GSC-11169-2	N73-32145* #	c 10	US-PATENT-3,760,394					US-PATENT-APPL-SN-486884
		US-PATENT-APPL-SN-139094			NASA-CASE-MFS-21465-1					US-PATENT-CLASS-175-26
		US-PATENT-APPL-SN-60882			US-PATENT-APPL-SN-218965			N73-32391* #	c 16	US-PATENT-3,375,885
		US-PATENT-CLASS-195-127			US-PATENT-CLASS-307-271					NASA-CASE-GSC-11222-1
		US-PATENT-3,756,920			US-PATENT-CLASS-318-230					US-PATENT-APPL-SN-251621
N73-32012* #	c 05	NASA-CASE-MSC-12609-1			US-PATENT-CLASS-318-231					US-PATENT-CLASS-307-157
		US-PATENT-APPL-SN-750031			US-PATENT-CLASS-318-341					US-PATENT-CLASS-315-DIG.2
		US-PATENT-CLASS-128-1A			US-PATENT-CLASS-331-135					US-PATENT-CLASS-315-101
		US-PATENT-CLASS-2.2.1A			US-PATENT-3,760,248					US-PATENT-CLASS-315-258
		US-PATENT-CLASS-2-81	N73-32152* #	c 11	NASA-CASE-MSC-13789-1					US-PATENT-CLASS-315-356
		US-PATENT-3,751,727			US-PATENT-APPL-SN-166487					US-PATENT-CLASS-330-4.3
N73-32013* #	c 05	NASA-CASE-MFS-16570-1			US-PATENT-CLASS-102-95					US-PATENT-CLASS-331-94.5
		US-PATENT-APPL-SN-228150			US-PATENT-CLASS-188-1C					US-PATENT-3,758,877
		US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-89-8			N73-32414* #	c 17	NASA-CASE-LEW-11267-1
		US-PATENT-CLASS-3-12			US-PATENT-3,763,740					US-PATENT-APPL-SN-190316
		US-PATENT-CLASS-3-2	N73-32317* #	c 14	NASA-CASE-NPO-12128-1					US-PATENT-CLASS-29-196.2
		US-PATENT-CLASS-3-6			US-PATENT-APPL-SN-841845					US-PATENT-CLASS-29-196.6
		US-PATENT-3,751,733			US-PATENT-CLASS-250-207					US-PATENT-CLASS-29-187
N73-32014* #	c 05	NASA-CASE-MSC-11561-1			US-PATENT-CLASS-250-83.3R					US-PATENT-3,762,884
		US-PATENT-APPL-SN-146940			US-PATENT-CLASS-313-104			N73-32415* #	c 17	NASA-CASE-LEW-10436-1
		US-PATENT-CLASS-137-535			US-PATENT-3,758,781					US-PATENT-APPL-SN-221093
		US-PATENT-CLASS-272-DIG.1	N73-32318* #	c 14	NASA-CASE-KSC-10730-1					US-PATENT-CLASS-73-170
		US-PATENT-CLASS-272-DIG.4			US-PATENT-APPL-SN-248469					US-PATENT-CLASS-75-171
		US-PATENT-CLASS-272-DIG.5			US-PATENT-CLASS-324-72					US-PATENT-3,762,918
		US-PATENT-CLASS-272-79C			US-PATENT-3,760,268			N73-32437* #	c 18	NASA-CASE-MFS-20861-1
		US-PATENT-CLASS-91-186	N73-32319* #	c 14	NASA-CASE-KSC-10728-1					US-PATENT-APPL-SN-160860
		US-PATENT-3,758,112			US-PATENT-APPL-SN-292682					US-PATENT-CLASS-75-135
N73-32015* #	c 05	NASA-CASE-MSC-13436-1			US-PATENT-CLASS-95-11					US-PATENT-3,752,665
		US-PATENT-APPL-SN-173190			US-PATENT-CLASS-95-11.5			N73-32528* #	c 22	NASA-CASE-XLE-00209
		US-PATENT-CLASS-128-2.07			US-PATENT-3,759,152					US-PATENT-APPL-SN-60276
		US-PATENT-CLASS-128-2.08	N73-32320* #	c 14	NASA-CASE-GSC-11188-1					US-PATENT-CLASS-176-169
		US-PATENT-CLASS-73-194E			US-PATENT-APPL-SN-244440					US-PATENT-3,759,787
		US-PATENT-CLASS-73-194M			US-PATENT-APPL-SN-80029			N73-32571* #	c 26	NASA-CASE-LEW-11015
		US-PATENT-3,759,249			US-PATENT-CLASS-29-195Y					US-PATENT-APPL-SN-235266
N73-32029* #	c 06	NASA-CASE-NPO-10998-1			US-PATENT-3,759,672					US-PATENT-CLASS-174-DIG.6
		NASA-CASE-NPO-10999-1	N73-32321* #	c 14	NASA-CASE-XNP-05530					US-PATENT-CLASS-174-126CP
		US-PATENT-APPL-SN-145027			NASA-CASE-XNP-06933					US-PATENT-CLASS-29-599
		US-PATENT-CLASS-252-431N			US-PATENT-APPL-SN-488381					US-PATENT-CLASS-335-216
		US-PATENT-CLASS-252-431R			US-PATENT-CLASS-73-81					US-PATENT-3,763,552
		US-PATENT-CLASS-260-47UP			US-PATENT-3,379,052			N73-32606* #	c 28	NASA-CASE-NPO-12070-1
		US-PATENT-CLASS-260-567.6M	N73-32322* #	c 14	NASA-CASE-LAR-10319-1					US-PATENT-APPL-SN-153542
		US-PATENT-CLASS-260-93.5A			US-PATENT-APPL-SN-197870					US-PATENT-CLASS-165-105
		US-PATENT-CLASS-260-93.5S			US-PATENT-CLASS-346-110					US-PATENT-CLASS-165-141
		US-PATENT-CLASS-260-94.2M			US-PATENT-CLASS-95-42					US-PATENT-CLASS-165-185
		US-PATENT-CLASS-260-94.2R	N73-32323* #	c 14	US-PATENT-3,757,659					US-PATENT-CLASS-239-127.1
		US-PATENT-CLASS-260-94.7R			NASA-CASE-LAR-10440-1					US-PATENT-CLASS-60-267
		US-PATENT-3,755,283			US-PATENT-APPL-SN-229413					US-PATENT-3,759,443
N73-32030* #	c 06	NASA-CASE-MFS-20979-2			US-PATENT-CLASS-73-103			N73-32749* #	c 31	NASA-CASE-ERC-10365-1
		US-PATENT-APPL-SN-100774			US-PATENT-CLASS-73-94					US-PATENT-APPL-SN-99198
		US-PATENT-APPL-SN-219590			US-PATENT-3,757,568					US-PATENT-CLASS-287-92
		US-PATENT-CLASS-260-448.2D	N73-32324* #	c 14	NASA-CASE-LAR-02743					US-PATENT-CLASS-52-109
		US-PATENT-3,763,204			US-PATENT-APPL-SN-404212					US-PATENT-CLASS-52-64
N73-32081* #	c 08	NASA-CASE-MSC-12458-1			US-PATENT-CLASS-313-7					US-PATENT-CLASS-52-646
		US-PATENT-APPL-SN-188927			US-PATENT-3,310,699					US-PATENT-CLASS-52-80
		US-PATENT-CLASS-235-152IE	N73-32325* #	c 14	NASA-CASE-XNP-04231					US-PATENT-3,757,476
		US-PATENT-CLASS-340-347DA			US-PATENT-APPL-SN-362261			N73-32750* #	c 31	NASA-CASE-LEW-11101-1
		US-PATENT-3,754,236			US-PATENT-CLASS-250-41.9					US-PATENT-APPL-SN-175983
N73-32107* #	c 09	NASA-CASE-MFS-20207-1			US-PATENT-3,334,225					US-PATENT-CLASS-244-1SC
		US-PATENT-APPL-SN-239574			NASA-CASE-ARC-10362-1					US-PATENT-CLASS-244-1SS
		US-PATENT-CLASS-318-254	N73-32326* #	c 14	US-PATENT-APPL-SN-198289					US-PATENT-CLASS-47-1.4
		US-PATENT-CLASS-318-328			US-PATENT-CLASS-128-2.05F					US-PATENT-CLASS-47-17
		US-PATENT-3,757,183			US-PATENT-CLASS-73-194EM					US-PATENT-3,749,332
N73-32108* #	c 09	NASA-CASE-GSC-11368-1			US-PATENT-3,751,980			N73-32818* #	c 33	NASA-CASE-NPO-11942-1
		US-PATENT-APPL-SN-237029			NASA-CASE-LAR-10483-1					US-PATENT-APPL-SN-266866
		US-PATENT-CLASS-136-24	N73-32327* #	c 14	US-PATENT-APPL-SN-184090					US-PATENT-CLASS-165-106
		US-PATENT-3,759,746			US-PATENT-CLASS-73-12					US-PATENT-CLASS-165-32
N73-32109* #	c 09	NASA-CASE-GSC-11394-1			US-PATENT-CLASS-73-170R					US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-292698			US-PATENT-3,763,691					US-PATENT-CLASS-244-1SS
		US-PATENT-CLASS-136-89	N73-32358* #	c 15	NASA-CASE-LEW-11388-1					US-PATENT-3,763,928
		US-PATENT-CLASS-250-212			US-PATENT-APPL-SN-289033			N73-33076* #	c 06	NASA-CASE-NPO-10767-1
		US-PATENT-CLASS-321-1.5			US-PATENT-CLASS-219-117					US-PATENT-APPL-SN-241061
		US-PATENT-3,760,257			US-PATENT-CLASS-219-91					US-PATENT-APPL-SN-770417
N73-32110* #	c 09	NASA-CASE-KSC-10729-1			US-PATENT-CLASS-29-497					US-PATENT-CLASS-260-77.5AP
		US-PATENT-APPL-SN-221714			US-PATENT-3,758,741					US-PATENT-3,755,265
		US-PATENT-CLASS-343-112R	N73-32359* #	c 15	NASA-CASE-LEW-11152-1			N73-33361* #	c 14	NASA-CASE-ARC-10468-1
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		US-PATENT-3,754,263			US-PATENT-CLASS-308-35					US-PATENT-CLASS-355-18
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		US-PATENT-CLASS-73-15.6	N74-20813* #	c 32	NASA-CASE-FRC-10071-1	US-PATENT-APPL-SN-289048
		US-PATENT-CLASS-73-91			US-PATENT-3,806,815	US-PATENT-CLASS-29-470.1
		US-PATENT-3,795,134			US-PATENT-APPL-SN-307727	US-PATENT-3,797,098
N74-19692* #	c 44	NASA-CASE-GSC-11367-1			US-PATENT-CLASS-178-7.7	N74-21058* #
		US-PATENT-APPL-SN-236985			US-PATENT-CLASS-315-18	c 37
		US-PATENT-CLASS-136-36			US-PATENT-CLASS-315-228	NASA-CASE-MFS-22411-1
		US-PATENT-3,759,747			US-PATENT-CLASS-315-22	US-PATENT-APPL-SN-382262
N74-19693* #	c 44	NASA-CASE-NPO-11806-1	N74-20836* #	c 60	US-PATENT-3,803,445	US-PATENT-CLASS-260-448.2N
		US-PATENT-APPL-SN-228163			NASA-CASE-ERC-10180-1	US-PATENT-3,801,617
		US-PATENT-CLASS-136-20			US-PATENT-APPL-SN-838278	N74-21059* #
		US-PATENT-CLASS-136-30			US-PATENT-CLASS-235-164	c 31
		US-PATENT-3,790,409			US-PATENT-3,803,393	NASA-CASE-LAR-10409-1
N74-19769* #	c 24	NASA-CASE-ERC-10073-1	N74-20859* #	c 33	NASA-CASE-XLE-2529-3	US-PATENT-APPL-SN-340884
		US-PATENT-APPL-SN-856253			US-PATENT-APPL-SN-288856	US-PATENT-CLASS-29-423
		US-PATENT-CLASS-117-95			US-PATENT-APPL-SN-487929	US-PATENT-3,798,741
		US-PATENT-3,796,592			US-PATENT-CLASS-315-211	N74-21060* #
N74-19788* #	c 32	NASA-CASE-NPO-11820-1			US-PATENT-CLASS-315-228	c 37
		US-PATENT-APPL-SN-266912			US-PATENT-CLASS-331-94.5D	NASA-CASE-NPO-13105-1
		US-PATENT-CLASS-307-237			US-PATENT-CLASS-332-7.51	US-PATENT-APPL-SN-283502
		US-PATENT-CLASS-328-160	N74-20860* #	c 33	US-PATENT-3,806,835	US-PATENT-CLASS-60-25
		US-PATENT-CLASS-328-168			NASA-CASE-GSC-11446-1	US-PATENT-3,798,896
		US-PATENT-CLASS-328-172			US-PATENT-APPL-SN-263230	N74-21061* #
		US-PATENT-CLASS-333-14			US-PATENT-CLASS-343-DIG.2	c 37
		US-PATENT-3,800,237			US-PATENT-CLASS-343-100SA	NASA-CASE-LEW-11076-1
N74-19790* #	c 32	NASA-CASE-MFS-21540-1			US-PATENT-CLASS-343-100ST	US-PATENT-APPL-SN-238264
		US-PATENT-APPL-SN-333912			US-PATENT-CLASS-343-854	US-PATENT-CLASS-308-73
		US-PATENT-CLASS-178-7.1			US-PATENT-3,806,932	US-PATENT-3,804,472
		US-PATENT-CLASS-325-148	N74-20861* #	c 33	NASA-CASE-GSC-11560-1	N74-21062* #
		US-PATENT-3,800,224			US-PATENT-APPL-SN-361906	c 35
N74-19870* #	c 44	NASA-CASE-MFS-21470-1			US-PATENT-CLASS-350-269	NASA-CASE-LAR-10295-1
		US-PATENT-APPL-SN-340871			US-PATENT-CLASS-354-234	US-PATENT-APPL-SN-221685
		US-PATENT-CLASS-325-62			US-PATENT-CLASS-95-53EA	US-PATENT-CLASS-73-12
		US-PATENT-CLASS-333-17			US-PATENT-3,804,506	US-PATENT-CLASS-73-432
		US-PATENT-CLASS-343-17.7	N74-20862* #	c 33	NASA-CASE-GSC-11513-1	US-PATENT-3,805,622
		US-PATENT-CLASS-343-7.5			US-PATENT-APPL-SN-315069	N74-21063* #
		US-PATENT-3,795,910			US-PATENT-CLASS-331-108A	c 37
N74-20008* #	c 74	NASA-CASE-GSC-11188-3			US-PATENT-CLASS-331-115	NASA-CASE-LEW-10698-1
		US-PATENT-APPL-SN-244566			US-PATENT-CLASS-331-116R	US-PATENT-APPL-SN-30498
		US-PATENT-APPL-SN-80029			US-PATENT-CLASS-331-159	US-PATENT-CLASS-106-52
		US-PATENT-CLASS-117-45			US-PATENT-3,806,831	US-PATENT-CLASS-117-129
		US-PATENT-3,799,793	N74-20863* #	c 32	NASA-CASE-GSC-11909	US-PATENT-CLASS-161-196
N74-20009* #	c 36	NASA-CASE-NPO-11861-1			US-PATENT-APPL-SN-244158	US-PATENT-CLASS-65-DIG.1
		US-PATENT-APPL-SN-266911			US-PATENT-CLASS-343-730	US-PATENT-3,804,703
		US-PATENT-CLASS-178-DIG.1			US-PATENT-CLASS-343-786	N74-21064* #
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-343-797	c 37
		US-PATENT-CLASS-178-7.6			US-PATENT-CLASS-343-853	NASA-CASE-LEW-11087-3
		US-PATENT-3,800,074			US-PATENT-3,803,617	US-PATENT-APPL-SN-201904
N74-20063* #	c 37	NASA-CASE-LAR-10129-2	N74-20864* #	c 32	NASA-CASE-GSC-11428-1	US-PATENT-APPL-SN-346361
		US-PATENT-APPL-SN-319410			US-PATENT-APPL-SN-292685	US-PATENT-CLASS-308-188
		US-PATENT-APPL-SN-99201			US-PATENT-CLASS-343-708	US-PATENT-CLASS-308-191
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-343-769	US-PATENT-3,802,753
		US-PATENT-3,796,473			US-PATENT-CLASS-343-853	N74-21065* #
N74-20329* #	c 76	NASA-CASE-GSC-11425-1			US-PATENT-3,805,266	c 37
		US-PATENT-APPL-SN-206266	N74-21014* #	c 71	NASA-CASE-HQN-10832-1	NASA-CASE-NPO-11951-1
		US-PATENT-CLASS-148-1.5			US-PATENT-APPL-SN-301417	US-PATENT-APPL-SN-287150
		US-PATENT-3,799,813			US-PATENT-CLASS-178-DIG.32	US-PATENT-CLASS-137-628
N74-20646* #	c 02	NASA-CASE-LEW-11188-1			US-PATENT-CLASS-178-5.8R	US-PATENT-CLASS-251-120
		US-PATENT-APPL-SN-152328			US-PATENT-CLASS-178-7.2	US-PATENT-CLASS-251-122
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-340-407	US-PATENT-CLASS-251-210
		US-PATENT-CLASS-137-15.2			US-PATENT-CLASS-35-35A	US-PATENT-3,802,660
		US-PATENT-CLASS-244-53B			US-PATENT-3,800,082	N74-21091* #
		US-PATENT-3,799,475	N74-21015* #	c 19	NASA-CASE-LAR-10626-1	c 36
N74-20725* #	c 54	NASA-CASE-MFS-22102-1			US-PATENT-APPL-SN-202750	NASA-CASE-GSC-11262-1
		US-PATENT-APPL-SN-341621			US-PATENT-CLASS-33-1SA	US-PATENT-APPL-SN-162380
		US-PATENT-CLASS-4-10			US-PATENT-CLASS-33-46R	US-PATENT-CLASS-250-204
		US-PATENT-CLASS-4-120			US-PATENT-3,798,778	US-PATENT-CLASS-33-285
		US-PATENT-3,805,303	N74-21017* #	c 35	NASA-CASE-MFS-21660-1	US-PATENT-CLASS-356-141
N74-20726* #	c 52	NASA-CASE-ARC-10597-1			US-PATENT-APPL-SN-310616	US-PATENT-CLASS-356-152
		US-PATENT-APPL-SN-281876			US-PATENT-CLASS-324-83Q	US-PATENT-CLASS-356-172
		US-PATENT-CLASS-128-2V			US-PATENT-3,806,802	US-PATENT-3,804,525
		US-PATENT-CLASS-73-67.9	N74-21018* #	c 35	NASA-CASE-LEW-10981-1	N74-21156* #
		US-PATENT-3,802,253			US-PATENT-APPL-SN-214089	c 27
N74-20728* #	c 52	NASA-CASE-MFS-21415-1			US-PATENT-CLASS-310-11	NASA-CASE-ARC-10592-1
		US-PATENT-APPL-SN-318152			US-PATENT-CLASS-324-34FL	US-PATENT-APPL-SN-321179
		US-PATENT-CLASS-128-2.07			US-PATENT-CLASS-73-194EM	US-PATENT-CLASS-260-46.5E
		US-PATENT-CLASS-128-2.08			US-PATENT-3,802,262	US-PATENT-3,803,090
		US-PATENT-CLASS-73-23	N74-21019* #	c 35	NASA-CASE-GSC-11600-1	N74-21300* #
		US-PATENT-CLASS-73-421.5R			US-PATENT-APPL-SN-318357	c 70
		US-PATENT-3,799,149			US-PATENT-CLASS-73-1F	NASA-CASE-ARC-10516-1
N74-20809* #	c 32	NASA-CASE-MSC-12462-1			US-PATENT-3,802,249	US-PATENT-APPL-SN-267768
		US-PATENT-APPL-SN-274360	N74-21055* #	c 37	NASA-CASE-LEW-11388-2	US-PATENT-CLASS-350-270
		US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-289033	US-PATENT-CLASS-354-234
		US-PATENT-CLASS-325-320			US-PATENT-APPL-SN-293726	US-PATENT-3,797,919
		US-PATENT-CLASS-325-423			US-PATENT-CLASS-29-487	N74-21304* #
		US-PATENT-3,800,227			US-PATENT-CLASS-29-494	c 74
N74-20810* #	c 32	NASA-CASE-MSC-12494-1			US-PATENT-CLASS-29-498	NASA-CASE-GSC-11353-1
		US-PATENT-APPL-SN-304705			US-PATENT-CLASS-29-504	US-PATENT-APPL-SN-260241
		US-PATENT-CLASS-325-321			US-PATENT-3,798,748	US-PATENT-CLASS-250-231SE
		US-PATENT-CLASS-325-419	N74-21056* #	c 37	NASA-CASE-LAR-10688-1	US-PATENT-CLASS-350-299
		US-PATENT-3,806,816			US-PATENT-APPL-SN-285705	US-PATENT-CLASS-356-152
					US-PATENT-CLASS-235-151	US-PATENT-3,802,779

N74-22771* #	c 52	NASA-CASE-ARC-10447-1 US-PATENT-APPL-SN-311175 US-PATENT-CLASS-128-214E US-PATENT-CLASS-235-151.3 US-PATENT-3,809,871	N74-26654* #	c 32	NASA-CASE-MS-C-14065-1 US-PATENT-APPL-SN-297128 US-PATENT-CLASS-178-67 US-PATENT-CLASS-325-30 US-PATENT-3,816,657	N74-27490* #	c 07	NASA-CASE-LEW-11286-1 US-PATENT-APPL-SN-339806 US-PATENT-CLASS-181-33HB US-PATENT-CLASS-239-265.17 US-PATENT-3,820,630
N74-22814* #	c 33	NASA-CASE-NPO-13081-1 US-PATENT-APPL-SN-345372 US-PATENT-CLASS-307-215 US-PATENT-CLASS-307-243 US-PATENT-CLASS-307-290 US-PATENT-CLASS-328-154 US-PATENT-3,808,464	N74-26732* #	c 33	NASA-CASE-MFS-21698-1 US-PATENT-APPL-SN-37050 US-PATENT-CLASS-331-109 US-PATENT-CLASS-331-117R US-PATENT-CLASS-331-183 US-PATENT-3,815,048	N74-27519* #	c 44	NASA-CASE-MFS-20761-1 US-PATENT-APPL-SN-326327 US-PATENT-CLASS-136-182 US-PATENT-CLASS-324-29.5 US-PATENT-CLASS-324-72.5 US-PATENT-3,818,325
N74-22864* #	c 33	NASA-CASE-XER-11046-2 US-PATENT-APPL-SN-810579 US-PATENT-APPL-SN-87597 US-PATENT-CLASS-321-45R US-PATENT-3,808,511	N74-26767* #	c 73	NASA-CASE-NPO-13112-1 US-PATENT-APPL-SN-267572 US-PATENT-CLASS-250-499 US-PATENT-CLASS-313-61S US-PATENT-3,816,785	N74-27566* #	c 52	NASA-CASE-GSC-11531-1 US-PATENT-APPL-SN-291845 US-PATENT-CLASS-128-2.05E US-PATENT-CLASS-73-398AR US-PATENT-3,811,429
N74-22865* #	c 33	NASA-CASE-LAR-10168-1 US-PATENT-APPL-SN-354407 US-PATENT-CLASS-174-DIG.8 US-PATENT-CLASS-174-69 US-PATENT-CLASS-174-70R US-PATENT-CLASS-244-151R US-PATENT-3,809,800	N74-26945* #	c 35	NASA-CASE-MFS-21556-1 US-PATENT-APPL-SN-340791 US-PATENT-CLASS-177-200 US-PATENT-CLASS-177-211 US-PATENT-CLASS-177-246 US-PATENT-CLASS-73-141A US-PATENT-3,812,924	N74-27612* #	c 32	NASA-CASE-MS-C-14219-1 US-PATENT-APPL-SN-324029 US-PATENT-CLASS-117-2R US-PATENT-CLASS-156-94 US-PATENT-CLASS-179-100.2A US-PATENT-CLASS-179-100.2B US-PATENT-CLASS-264-36 US-PATENT-3,819,440
N74-22885* #	c 33	NASA-CASE-MFS-21671-1 US-PATENT-APPL-SN-329958 US-PATENT-CLASS-323-106 US-PATENT-CLASS-323-122 US-PATENT-CLASS-323-128 US-PATENT-3,808,517	N74-26946* #	c 35	NASA-CASE-MFS-22040-1 US-PATENT-APPL-SN-365644 US-PATENT-CLASS-350-3.5 US-PATENT-CLASS-96-38.3 US-PATENT-CLASS-96-79 US-PATENT-3,815,969	N74-27682* #	c 33	NASA-CASE-ARC-10593-1 US-PATENT-APPL-SN-310193 US-PATENT-CLASS-250-207 US-PATENT-CLASS-307-252L US-PATENT-CLASS-307-252Q US-PATENT-3,821,546
N74-23039* #	c 34	NASA-CASE-GSC-11620-1 US-PATENT-APPL-SN-280305 US-PATENT-CLASS-126-270 US-PATENT-CLASS-244-127 US-PATENT-CLASS-244-31 US-PATENT-3,807,384	N74-26947* #	c 25	NASA-CASE-ARC-10633-1 US-PATENT-APPL-SN-354611 US-PATENT-CLASS-250-304 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-373 US-PATENT-3,814,939	N74-27683* #	c 33	NASA-CASE-LEW-10950-1 US-PATENT-APPL-SN-273222 US-PATENT-CLASS-174-111 US-PATENT-CLASS-174-15C US-PATENT-CLASS-174-28 US-PATENT-CLASS-310-4R US-PATENT-3,821,462
N74-23040* #	c 35	NASA-CASE-NPO-11932-1 NASA-CASE-NPO-13127-1 US-PATENT-APPL-SN-311234 US-PATENT-CLASS-356-1065 US-PATENT-CLASS-356-113 US-PATENT-3,809,481	N74-26948* #	c 25	NASA-CASE-MFS-21395-1 US-PATENT-APPL-SN-260093 US-PATENT-CLASS-204-180R US-PATENT-3,814,678	N74-27705* #	c 33	NASA-CASE-MS-C-14066-1 US-PATENT-APPL-SN-297127 US-PATENT-CLASS-178-88 US-PATENT-CLASS-325-320 US-PATENT-3,818,346
N74-23064* #	c 37	NASA-CASE-LAR-10900-1 US-PATENT-APPL-SN-290021 US-PATENT-CLASS-161-116 US-PATENT-3,809,601	N74-26949* #	c 35	NASA-CASE-GSC-11492-1 US-PATENT-APPL-SN-372148 US-PATENT-CLASS-250-374 US-PATENT-CLASS-250-385 US-PATENT-CLASS-313-93 US-PATENT-3,812,358	N74-27730* #	c 34	NASA-CASE-MFS-21424-1 US-PATENT-APPL-SN-315048 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-3 US-PATENT-3,817,082
N74-23065* #	c 31	NASA-CASE-NPO-11758-1 US-PATENT-APPL-SN-266913 US-PATENT-CLASS-204-222 US-PATENT-3,810,829	N74-26976* #	c 37	NASA-CASE-MFS-21846-1 US-PATENT-APPL-SN-359958 US-PATENT-CLASS-188-163 US-PATENT-CLASS-188-171 US-PATENT-3,812,936	N74-27744* #	c 34	NASA-CASE-MFS-21394-1 US-PATENT-APPL-SN-258171 US-PATENT-CLASS-204-180R US-PATENT-CLASS-204-299 US-PATENT-3,821,102
N74-23066* #	c 34	NASA-CASE-LAR-10089-1 US-PATENT-APPL-SN-305638 US-PATENT-CLASS-240-47 US-PATENT-CLASS-353-54 US-PATENT-CLASS-353-61 US-PATENT-3,811,044	N74-26977* #	c 33	NASA-CASE-MFS-22133-1 US-PATENT-APPL-SN-337487 US-PATENT-CLASS-29-203MM US-PATENT-3,815,205	N74-27859* #	c 34	NASA-CASE-GSC-11434-1 US-PATENT-APPL-SN-263498 US-PATENT-CLASS-73-190R US-PATENT-3,813,937
N74-23068* #	c 46	NASA-CASE-XNP-10007-1 US-PATENT-APPL-SN-611414 US-PATENT-APPL-SN-768942 US-PATENT-CLASS-299-67 US-PATENT-3,606,470	N74-27035* #	c 24	NASA-CASE-XLA-11028-1 US-PATENT-APPL-SN-219435 US-PATENT-CLASS-156-285 US-PATENT-3,814,653	N74-27860* #	c 35	NASA-CASE-MS-C-14081-1 US-PATENT-APPL-SN-331760 US-PATENT-CLASS-250-576 US-PATENT-CLASS-356-180 US-PATENT-CLASS-356-246 US-PATENT-3,817,627
N74-23069* #	c 46	NASA-CASE-XNP-09755 US-PATENT-APPL-SN-611414 US-PATENT-APPL-SN-857241 US-PATENT-CLASS-125-1 US-PATENT-CLASS-125-3 US-PATENT-CLASS-299-86 US-PATENT-CLASS-51-283 US-PATENT-3,612,030	N74-27037* #	c 27	NASA-CASE-ARC-10304-2 US-PATENT-APPL-SN-140946 US-PATENT-APPL-SN-318358 US-PATENT-CLASS-102-105 US-PATENT-CLASS-106-15FP US-PATENT-CLASS-252-62 US-PATENT-CLASS-252-8.1 US-PATENT-CLASS-260-DIG.24 US-PATENT-CLASS-260-2.5FP US-PATENT-CLASS-260-2.5R US-PATENT-CLASS-260-396N US-PATENT-3,819,550	N74-27861* #	c 34	NASA-CASE-MFS-21108-1 US-PATENT-APPL-SN-307728 US-PATENT-CLASS-136-213 US-PATENT-CLASS-136-230 US-PATENT-CLASS-136-233 US-PATENT-3,819,419
N74-23070* #	c 37	NASA-CASE-MFS-20645-1 US-PATENT-APPL-SN-103091 US-PATENT-CLASS-74-217R US-PATENT-3,678,771	N74-27360* #	c 15	NASA-CASE-LAR-10670-2 US-PATENT-APPL-SN-248761 US-PATENT-APPL-SN-59892 US-PATENT-CLASS-102-90 US-PATENT-CLASS-60-214 US-PATENT-CLASS-60-215 US-PATENT-CLASS-60-39.46 US-PATENT-3,813,875	N74-27862* #	c 33	NASA-CASE-KSC-10731-1 US-PATENT-APPL-SN-288847 US-PATENT-CLASS-324-72 US-PATENT-CLASS-340-151 US-PATENT-CLASS-340-182 US-PATENT-CLASS-340-200 US-PATENT-CLASS-73-170R US-PATENT-3,820,095
N74-23125* #	c 27	NASA-CASE-LEW-10199-1 US-PATENT-APPL-SN-651972 US-PATENT-CLASS-117-126GR US-PATENT-CLASS-117-132B US-PATENT-CLASS-117-161UN US-PATENT-CLASS-260-78TF US-PATENT-3,647,529	N74-27397* #	c 18	NASA-CASE-MFS-21680-1 NASA-CASE-MFS-21681-1 US-PATENT-APPL-SN-343607 US-PATENT-CLASS-244-1SS US-PATENT-CLASS-248-16 US-PATENT-CLASS-248-23 US-PATENT-3,814,350	N74-27864* #	c 52	NASA-CASE-MFS-21049-1 US-PATENT-APPL-SN-304430 US-PATENT-CLASS-128-2S US-PATENT-CLASS-338-114 US-PATENT-CLASS-338-5 US-PATENT-CLASS-73-88.5R US-PATENT-3,820,529
N74-25968* #	c 37	NASA-CASE-MFS-21485-1 US-PATENT-APPL-SN-277436 US-PATENT-CLASS-408-111 US-PATENT-CLASS-408-80 US-PATENT-CLASS-90-12.5 US-PATENT-3,813,183	N74-27425* #	c 28	NASA-CASE-NPO-11743-1 US-PATENT-APPL-SN-277904 US-PATENT-CLASS-102-28EB US-PATENT-CLASS-102-70.2A US-PATENT-CLASS-102-70.2R US-PATENT-3,812,783	N74-27865* #	c 35	NASA-CASE-MFS-21728-1 US-PATENT-APPL-SN-361907 US-PATENT-CLASS-73-141A US-PATENT-3,820,388
N74-26625* #	c 52	NASA-CASE-NPO-13065-1 US-PATENT-APPL-SN-269073 US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-325-113 US-PATENT-CLASS-325-141 US-PATENT-CLASS-340-183 US-PATENT-CLASS-340-203 US-PATENT-CLASS-340-207R US-PATENT-3,815,109			N74-27866* #	c 74	NASA-CASE-MFS-21372-1 US-PATENT-APPL-SN-226477 US-PATENT-CLASS-250-505 US-PATENT-CLASS-250-511 US-PATENT-3,821,556	
N74-26626* #	c 52	NASA-CASE-MS-C-13999-1			N74-27872* #	c 06	NASA-CASE-ARC-10806 US-PATENT-APPL-SN-478802	
					N74-27900* #	c 31	NASA-CASE-LAR-10841-1 US-PATENT-APPL-SN-307729	

		US-PATENT-CLASS-13-31			US-PATENT-CLASS-356-141	N74-32921* #	c 37	.....	NASA-CASE-LEW-11076-2
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-356-147				US-PATENT-APPL-SN-238264
		US-PATENT-3,817,084			US-PATENT-3,827,807				US-PATENT-APPL-SN-346483
N74-27901* #	c 37	.....	NASA-CASE-ARC-10462-1	N74-31148* #	c 71	.....	NASA-CASE-NPO-11623-1		US-PATENT-CLASS-308-121
		US-PATENT-APPL-SN-310615			US-PATENT-APPL-SN-235338				US-PATENT-3,830,552
		US-PATENT-CLASS-74-675			US-PATENT-CLASS-181-5R	N74-33209* #	c 28	.....	NASA-CASE-NPO-11975-1
		US-PATENT-CLASS-74-710			US-PATENT-CLASS-73-69				US-PATENT-APPL-SN-329243
		US-PATENT-3,818,775			US-PATENT-CLASS-73-71.5R				US-PATENT-CLASS-149-17
N74-27902* #	c 31	.....	NASA-CASE-GSC-11445-1	N74-31269* #	c 20	.....	US-PATENT-3,827,288		US-PATENT-CLASS-149-60
		US-PATENT-APPL-SN-248471			NASA-CASE-LEW-11646-1				US-PATENT-CLASS-149-76
		US-PATENT-CLASS-236-49			US-PATENT-APPL-SN-292686				US-PATENT-3,830,673
		US-PATENT-CLASS-98-39			US-PATENT-CLASS-204-192	N74-33218* #	c 07	.....	NASA-CASE-ARC-10712-1
		US-PATENT-3,818,814			US-PATENT-3,826,729				US-PATENT-APPL-SN-344410
N74-27903* #	c 37	.....	NASA-CASE-MS-12549-1	N74-31270* #	c 07	.....	NASA-CASE-LAR-10642-1		US-PATENT-CLASS-181-33HC
		US-PATENT-APPL-SN-301039			US-PATENT-APPL-SN-266820				US-PATENT-CLASS-239-265.11
		US-PATENT-CLASS-244-1SD			US-PATENT-CLASS-137-15.1				US-PATENT-3,830,431
		US-PATENT-3,820,741			US-PATENT-CLASS-415-181	N74-33378* #	c 25	.....	NASA-CASE-MFS-21675-1
N74-27904* #	c 37	.....	NASA-CASE-LEW-11672-1	N74-32418* #	c 07	.....	US-PATENT-3,829,237		US-PATENT-APPL-SN-392823
		US-PATENT-APPL-SN-305639			NASA-CASE-LAR-11141-1				US-PATENT-CLASS-23-277C
		US-PATENT-CLASS-417-52			US-PATENT-APPL-SN-359957				US-PATENT-CLASS-431-202
		US-PATENT-3,819,299			US-PATENT-CLASS-181-33C				US-PATENT-3,833,336
N74-27905* #	c 37	.....	NASA-CASE-LAR-10450-1		US-PATENT-CLASS-181-33F	N74-33379* #	c 44	.....	NASA-CASE-ARC-10461-1
		US-PATENT-APPL-SN-289017			US-PATENT-CLASS-181-33H				US-PATENT-APPL-SN-336319
		US-PATENT-CLASS-51-225			US-PATENT-CLASS-181-33L				US-PATENT-CLASS-60-527
		US-PATENT-CLASS-51-234			US-PATENT-CLASS-181-42				US-PATENT-3,830,060
		US-PATENT-CLASS-51-97R			US-PATENT-3,830,335	N74-34638* #	c 33	.....	NASA-CASE-MFS-22343-1
		US-PATENT-3,820,286			NASA-CASE-MS-11072				US-PATENT-APPL-SN-329237
N74-28097* #	c 35	.....	NASA-CASE-GSC-11479-1	N74-32546* #	c 54	.....	US-PATENT-APPL-SN-689455		US-PATENT-CLASS-307-18
		US-PATENT-APPL-SN-293739			US-PATENT-CLASS-156-218				US-PATENT-CLASS-307-295
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-2-2.1A				US-PATENT-CLASS-307-304
		US-PATENT-CLASS-74-5.5			US-PATENT-CLASS-2-82				US-PATENT-CLASS-307-35
		US-PATENT-3,818,767			US-PATENT-3,832,735				US-PATENT-3,840,829
N74-28226* #	c 07	.....	NASA-CASE-LEW-11402-1	N74-32598* #	c 32	.....	NASA-CASE-MS-14070-1	N74-34672* #	c 85
		US-PATENT-APPL-SN-219806			US-PATENT-APPL-SN-266940				NASA-CASE-LAR-10256-1
		US-PATENT-CLASS-415-181			US-PATENT-CLASS-340-146.1AQ				US-PATENT-APPL-SN-220785
		US-PATENT-CLASS-416-223			US-PATENT-3,831,142				US-PATENT-CLASS-104-138R
		US-PATENT-CLASS-416-237			NASA-CASE-GSC-11617-1				US-PATENT-CLASS-104-23FS
N74-29410* #	c 19	.....	US-PATENT-3,820,918	N74-32660* #	c 33	.....	US-PATENT-APPL-SN-402865		US-PATENT-CLASS-238-134
		NASA-CASE-MFS-21577-1			US-PATENT-CLASS-330-4.9				US-PATENT-3,837,285
		US-PATENT-APPL-SN-343308			US-PATENT-CLASS-330-53	N74-34857* #	c 35	.....	NASA-CASE-LAR-11428-1
		US-PATENT-CLASS-250-372			US-PATENT-3,833,857				US-PATENT-APPL-SN-188836
		US-PATENT-CLASS-250-394			NASA-CASE-MS-14130-1				US-PATENT-APPL-SN-357126
		US-PATENT-3,825,760			US-PATENT-APPL-SN-373587				US-PATENT-CLASS-250-281
N74-29556* #	c 33	.....	NASA-CASE-KSC-10769-1	N74-32711* #	c 33	.....	US-PATENT-CLASS-307-267		US-PATENT-CLASS-250-295
		US-PATENT-APPL-SN-374583			US-PATENT-CLASS-328-58				US-PATENT-3,835,318
		US-PATENT-CLASS-318-602			US-PATENT-3,831,098	N75-12086* #	c 25	.....	NASA-CASE-ARC-10469-1
		US-PATENT-CLASS-318-603			NASA-CASE-NPO-11948-1				US-PATENT-APPL-SN-281908
		US-PATENT-CLASS-318-664			US-PATENT-APPL-SN-306652				US-PATENT-CLASS-195-103.5R
		US-PATENT-3,826,964			US-PATENT-CLASS-307-230				US-PATENT-3,846,243
N74-30001* #	c 24	.....	NASA-CASE-LAR-10416-1		US-PATENT-CLASS-330-69	N75-12087* #	c 25	.....	NASA-CASE-ARC-10643-1
		US-PATENT-APPL-SN-251752			US-PATENT-CLASS-333-80R				US-PATENT-APPL-SN-513389
		US-PATENT-CLASS-156-94			US-PATENT-3,831,117				US-PATENT-CLASS-117-161UA
		US-PATENT-3,814,645			NASA-CASE-LAR-10806-1				US-PATENT-CLASS-117-161UN
N74-30156* #	c 75	.....	NASA-CASE-ARC-10598-1	N74-32877* #	c 35	.....	US-PATENT-APPL-SN-322998		US-PATENT-CLASS-117-161UZ
		US-PATENT-APPL-SN-318151			US-PATENT-CLASS-33-1M				US-PATENT-CLASS-117-93.1GD
		US-PATENT-CLASS-356-201			US-PATENT-CLASS-33-23R				US-PATENT-CLASS-204-177
		US-PATENT-CLASS-356-43			US-PATENT-CLASS-338-89				US-PATENT-CLASS-210-500
		US-PATENT-CLASS-356-73			US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-264-217
		US-PATENT-CLASS-356-85			US-PATENT-CLASS-346-33R				US-PATENT-CLASS-264-22
		US-PATENT-CLASS-356-87			US-PATENT-3,832,781				US-PATENT-3,847,652
		US-PATENT-3,817,622			NASA-CASE-LAR-11139-1	N75-12161* #	c 31	.....	NASA-CASE-MFS-20775-1
N74-30421* #	c 08	.....	NASA-CASE-LAR-10753-1	N74-32878* #	c 35	.....	US-PATENT-APPL-SN-287149		US-PATENT-APPL-SN-356664
		US-PATENT-APPL-SN-289018			US-PATENT-CLASS-73-182				US-PATENT-CLASS-118-49.1
		US-PATENT-CLASS-244-327			US-PATENT-CLASS-73-388				US-PATENT-3,847,115
		US-PATENT-CLASS-244-90R			US-PATENT-3,832,903	N75-12222* #	c 34	.....	NASA-CASE-GSC-11619-1
		US-PATENT-CLASS-244-91			NASA-CASE-MS-14187-1				US-PATENT-APPL-SN-397476
		US-PATENT-3,826,448			US-PATENT-APPL-SN-326326				US-PATENT-CLASS-138-113
N74-30502* #	c 25	.....	NASA-CASE-LEW-10906-1		US-PATENT-CLASS-23-230L				US-PATENT-CLASS-138-114
		US-PATENT-APPL-SN-245279			US-PATENT-CLASS-73-104				US-PATENT-CLASS-138-148
		US-PATENT-APPL-SN-876588			US-PATENT-CLASS-73-15.4				US-PATENT-CLASS-165-1
		US-PATENT-CLASS-204-157.1H			US-PATENT-CLASS-73-40.7				US-PATENT-CLASS-165-105
		US-PATENT-3,826,726			US-PATENT-3,830,094				US-PATENT-CLASS-165-47
N74-30523* #	c 32	.....	NASA-CASE-NPO-11921-1	N74-32917* #	c 31	.....	NASA-CASE-NPO-13205-1		US-PATENT-CLASS-220-15
		US-PATENT-APPL-SN-359039			US-PATENT-APPL-SN-393525				US-PATENT-CLASS-244-1SC
		US-PATENT-CLASS-179-158C			US-PATENT-CLASS-425-28B				US-PATENT-3,847,208
		US-PATENT-CLASS-325-346			US-PATENT-CLASS-425-35	N75-12270* #	c 35	.....	NASA-CASE-KSC-10750-1
		US-PATENT-3,828,138			US-PATENT-3,833,322				US-PATENT-APPL-SN-346372
N74-30524* #	c 32	.....	NASA-CASE-MS-13912-1	N74-32918* #	c 37	.....	NASA-CASE-NPO-13157-1		US-PATENT-CLASS-324-158T
		US-PATENT-APPL-SN-310034			US-PATENT-APPL-SN-370872				US-PATENT-CLASS-324-60C
		US-PATENT-CLASS-179-15AT			US-PATENT-CLASS-29-203H				US-PATENT-3,848,190
		US-PATENT-CLASS-179-15BY			US-PATENT-CLASS-29-268	N75-12271* #	c 35	.....	NASA-CASE-MFS-20994-1
		US-PATENT-3,828,137			US-PATENT-3,832,764				US-PATENT-APPL-SN-386789
N74-30597* #	c 09	.....	NASA-CASE-LAR-10550-1	N74-32919* #	c 20	.....	NASA-CASE-LEW-11118-1		US-PATENT-CLASS-128-2V
		US-PATENT-APPL-SN-261183			US-PATENT-APPL-SN-289050				US-PATENT-CLASS-73-67.1
		US-PATENT-CLASS-35-12E			US-PATENT-CLASS-204-9				US-PATENT-3,847,141
		US-PATENT-3,824,707			US-PATENT-3,832,290	N75-12272* #	c 35	.....	NASA-CASE-LAR-11069-1
N74-30608* #	c 34	.....	NASA-CASE-LAR-10194-1	N74-32920* #	c 31	.....	NASA-CASE-LAR-10489-2		US-PATENT-APPL-SN-326198
		US-PATENT-APPL-SN-169962			US-PATENT-APPL-SN-198763				US-PATENT-CLASS-195-127
		US-PATENT-CLASS-55-159			US-PATENT-APPL-SN-350300				US-PATENT-3,841,973
		US-PATENT-CLASS-55-199			US-PATENT-CLASS-249-145	N75-12273* #	c 35	.....	NASA-CASE-MFS-20506-1
		US-PATENT-CLASS-55-43			US-PATENT-CLASS-249-184				US-PATENT-APPL-SN-328792
		US-PATENT-3,828,524			US-PATENT-CLASS-249-83				US-PATENT-CLASS-33-DIG.13
N74-30886* #	c 89	.....	NASA-CASE-GSC-11569-1		US-PATENT-CLASS-249-95				US-PATENT-CLASS-33-180R
		US-PATENT-APPL-SN-293725			US-PATENT-CLASS-425-128				US-PATENT-CLASS-350-292
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-425-415				US-PATENT-3,842,509
		US-PATENT-CLASS-33-268			US-PATENT-3,830,609	N75-12326* #	c 37	.....	NASA-CASE-LAR-11211-1
									US-PATENT-APPL-SN-302681

		US-PATENT-CLASS-29-470.1			US-PATENT-CLASS-115-103.5			N75-15932* #	c 35	NASA-CASE-MFS-21045-1
		US-PATENT-CLASS-29-475			US-PATENT-CLASS-195-120					US-PATENT-APPL-SN-411572
		US-PATENT-3,842,485			US-PATENT-CLASS-195-127					US-PATENT-CLASS-73-1R
N75-12616* #	c 54	NASA-CASE-MFS-21611-1			US-PATENT-3,850,754					US-PATENT-CLASS-73-379
		US-PATENT-APPL-SN-403694		N75-13531* #	c 54	NASA-CASE-LEW-11581-1				US-PATENT-3,859,840
		US-PATENT-CLASS-214-1CM				US-PATENT-APPL-SN-327921		N75-15992* #	c 37	NASA-CASE-GSC-11577-1
		US-PATENT-CLASS-307-149				US-PATENT-CLASS-128-2.05A				US-PATENT-APPL-SN-322997
		US-PATENT-CLASS-308-174				US-PATENT-CLASS-128-2.05P				US-PATENT-CLASS-117-106A
		US-PATENT-3,849,668				US-PATENT-3,850,169				US-PATENT-CLASS-117-93.3
N75-12732* #	c 74	NASA-CASE-ARC-10448-2		N75-13539* #	c 60	NASA-CASE-ARC-10466-1				US-PATENT-CLASS-156-89
		US-PATENT-APPL-SN-374424				US-PATENT-APPL-SN-352382				US-PATENT-CLASS-156-99
		US-PATENT-CLASS-156-16				US-PATENT-CLASS-235-156				US-PATENT-CLASS-29-472.7
		US-PATENT-CLASS-156-18				US-PATENT-CLASS-235-197				US-PATENT-CLASS-29-473.1
		US-PATENT-CLASS-156-7				US-PATENT-CLASS-324-77B				US-PATENT-CLASS-65-43
		US-PATENT-CLASS-250-495				US-PATENT-3,851,162				US-PATENT-3,859,714
N75-12810* #	c 76	US-PATENT-3,847,689		N75-13625* #	c 75	NASA-CASE-MFS-22145-1		N75-16783* #	c 35	NASA-CASE-ARC-10637-1
		NASA-CASE-LAR-11059-1				US-PATENT-APPL-SN-367606				US-PATENT-APPL-SN-352383
		US-PATENT-APPL-SN-367294				US-PATENT-CLASS-176-3				US-PATENT-CLASS-356-28
		US-PATENT-CLASS-73-32R				US-PATENT-CLASS-313-63				US-PATENT-3,860,342
		US-PATENT-CLASS-73-432PS				US-PATENT-CLASS-315-111		N75-18310* #	c 20	NASA-CASE-LEW-11694-1
		US-PATENT-3,842,656				US-PATENT-CLASS-328-233				US-PATENT-APPL-SN-352381
N75-12930* #	c 05	NASA-CASE-ARC-10456-1				US-PATENT-3,854,097				US-PATENT-CLASS-29-25.18
		US-PATENT-APPL-SN-237491		N75-14834* #	c 23	NASA-CASE-MSC-13530-2				US-PATENT-CLASS-72-63
		US-PATENT-CLASS-244-75R				US-PATENT-APPL-SN-178771				US-PATENT-3,864,797
		US-PATENT-CLASS-244-83R				US-PATENT-APPL-SN-69488		N75-18477* #	c 33	NASA-CASE-MFS-22129-1
		US-PATENT-CLASS-416-25				US-PATENT-CLASS-106-13				US-PATENT-APPL-SN-370255
		US-PATENT-CLASS-74-480R				US-PATENT-CLASS-106-15R				US-PATENT-CLASS-324-32
		US-PATENT-3,850,388				US-PATENT-CLASS-106-287SB				US-PATENT-CLASS-324-54
N75-12968* #	c 09	NASA-CASE-MFS-22039-1				US-PATENT-CLASS-117-124F				US-PATENT-3,866,114
		US-PATENT-APPL-SN-386790				US-PATENT-CLASS-117-135.5		N75-18479* #	c 33	NASA-CASE-MSC-14129-1
		US-PATENT-CLASS-108-136				US-PATENT-CLASS-252-549				US-PATENT-APPL-SN-362146
		US-PATENT-3,853,075				US-PATENT-CLASS-252-70				US-PATENT-CLASS-307-229
N75-12969* #	c 09	NASA-CASE-ARC-10710-1				US-PATENT-3,856,534				US-PATENT-CLASS-307-235R
		US-PATENT-APPL-SN-379019		N75-14844* #	c 25	NASA-CASE-NPO-12130-1				US-PATENT-CLASS-307-267
		US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-750235				US-PATENT-CLASS-328-115
		US-PATENT-3,853,003				US-PATENT-CLASS-23-230B				US-PATENT-CLASS-328-151
N75-13007* #	c 15	NASA-CASE-GSC-11182-1				US-PATENT-CLASS-23-253R				US-PATENT-CLASS-328-58
		US-PATENT-APPL-SN-393527				US-PATENT-3,856,471				US-PATENT-3,869,624
		US-PATENT-CLASS-325-4		N75-14957* #	c 33	NASA-CASE-MSC-14240-1		N75-18573* #	c 37	NASA-CASE-NPO-13253-1
		US-PATENT-3,851,250				US-PATENT-APPL-SN-351929				US-PATENT-APPL-SN-395687
N75-13032* #	c 24	NASA-CASE-LAR-10994-1				US-PATENT-CLASS-307-205				US-PATENT-CLASS-248-358R
		US-PATENT-APPL-SN-390466				US-PATENT-CLASS-307-208				US-PATENT-3,863,881
		US-PATENT-CLASS-29-420				US-PATENT-3,857,045		N75-18574* #	c 37	NASA-CASE-GSC-11079-1
		US-PATENT-CLASS-29-604				NASA-CASE-LAR-11213-1				US-PATENT-APPL-SN-100637
		US-PATENT-CLASS-340-174MA		N75-15014* #	c 35	US-PATENT-APPL-SN-406715				US-PATENT-CLASS-308-10
		US-PATENT-CLASS-75-200				US-PATENT-CLASS-250-201				US-PATENT-3,865,442
		US-PATENT-3,849,877				US-PATENT-CLASS-356-4		N75-19329* #	c 18	NASA-CASE-MFS-22734-1
N75-13111* #	c 31	NASA-CASE-LAR-10782-2				US-PATENT-3,857,031				US-PATENT-APPL-SN-453232
		US-PATENT-APPL-SN-197689				NASA-CASE-MFS-21244-1				US-PATENT-CLASS-244-162
		US-PATENT-APPL-SN-379049		N75-15028* #	c 36	US-PATENT-APPL-SN-350249				US-PATENT-3,866,863
		US-PATENT-CLASS-249-144				US-PATENT-CLASS-356-103				NASA-CASE-LEW-11696-2
		US-PATENT-CLASS-249-145				US-PATENT-CLASS-356-28		N75-19408* #	c 26	US-PATENT-APPL-SN-298156
		US-PATENT-CLASS-249-59				US-PATENT-CLASS-356-5				US-PATENT-APPL-SN-436315
		US-PATENT-CLASS-425-DIG.43				US-PATENT-3,856,402				US-PATENT-CLASS-29-194
		US-PATENT-CLASS-425-405R		N75-15029* #	c 36	NASA-CASE-NPO-13050-1				US-PATENT-CLASS-29-196.2
		US-PATENT-CLASS-425-438				US-PATENT-APPL-SN-317567				US-PATENT-CLASS-29-196.6
		US-PATENT-CLASS-425-468				US-PATENT-CLASS-117-95				US-PATENT-CLASS-29-197
		US-PATENT-3,850,567				US-PATENT-CLASS-117-97				US-PATENT-3,869,779
N75-13139* #	c 33	NASA-CASE-MFS-22073-1				US-PATENT-CLASS-330-4		N75-19515* #	c 33	NASA-CASE-MSC-14131-1
		US-PATENT-APPL-SN-409991				US-PATENT-CLASS-332-7.5				US-PATENT-APPL-SN-373588
		US-PATENT-CLASS-318-608				US-PATENT-3,859,119				US-PATENT-CLASS-307-260
		US-PATENT-CLASS-318-640		N75-15050* #	c 37	NASA-CASE-NPO-13201-1				US-PATENT-CLASS-324-78J
		US-PATENT-CLASS-318-649				US-PATENT-APPL-SN-372149				US-PATENT-CLASS-328-59
		US-PATENT-CLASS-318-675				US-PATENT-CLASS-137-505.38				US-PATENT-CLASS-331-78
		US-PATENT-3,851,238				US-PATENT-CLASS-137-505.42				US-PATENT-3,866,128
N75-13213* #	c 35	NASA-CASE-LEW-11632-2				US-PATENT-CLASS-74-424.8VA		N75-19516* #	c 33	NASA-CASE-GSC-11760-1
		US-PATENT-APPL-SN-254173				US-PATENT-3,856,042				NASA-CASE-GSC-11783-1
		US-PATENT-APPL-SN-327969		N75-15270* #	c 52	NASA-CASE-NPO-12119-1				US-PATENT-APPL-SN-395868
		US-PATENT-CLASS-29-571				US-PATENT-APPL-SN-847815				US-PATENT-CLASS-343-761
		US-PATENT-CLASS-29-592				US-PATENT-CLASS-424-180				US-PATENT-CLASS-343-781
		US-PATENT-CLASS-307-309				US-PATENT-3,849,554				US-PATENT-CLASS-343-837
		US-PATENT-CLASS-317-235H		N75-15662* #	c 09	NASA-CASE-LAR-10276-1				US-PATENT-3,866,233
		US-PATENT-CLASS-330-6				US-PATENT-APPL-SN-29979		N75-19517* #	c 33	NASA-CASE-GSC-11582-1
		US-PATENT-3,849,875				US-PATENT-CLASS-272-1R				US-PATENT-APPL-SN-397477
N75-13261* #	c 37	NASA-CASE-LEW-11696-1				US-PATENT-CLASS-272-57A				US-PATENT-CLASS-178-15
		US-PATENT-APPL-SN-298156				US-PATENT-CLASS-35-12C				US-PATENT-CLASS-315-18
		US-PATENT-CLASS-29-196.6				US-PATENT-3,859,736				US-PATENT-CLASS-340-324AD
		US-PATENT-CLASS-29-197				NASA-CASE-NPO-13292-1				US-PATENT-3,866,210
		US-PATENT-CLASS-29-460		N75-15854* #	c 32	US-PATENT-APPL-SN-416135		N75-19518* #	c 33	NASA-CASE-ARC-10348-1
		US-PATENT-CLASS-29-494				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-140439
		US-PATENT-CLASS-29-497.5				US-PATENT-CLASS-343-17.5				US-PATENT-CLASS-330-69
		US-PATENT-CLASS-29-504				US-PATENT-CLASS-343-6.5R				US-PATENT-CLASS-330-86
		US-PATENT-3,849,865				US-PATENT-CLASS-343-9				US-PATENT-3,872,395
N75-13265* #	c 37	NASA-CASE-KSC-10723-1				US-PATENT-3,860,921		N75-19519* #	c 33	NASA-CASE-NPO-13125-1
		US-PATENT-APPL-SN-347952				NASA-CASE-MFS-22088-1				US-PATENT-APPL-SN-319150
		US-PATENT-CLASS-338-162				US-PATENT-APPL-SN-426155				US-PATENT-CLASS-235-92DM
		US-PATENT-CLASS-338-75				US-PATENT-CLASS-318-227				US-PATENT-CLASS-235-92LG
		US-PATENT-CLASS-338-97				US-PATENT-CLASS-318-230				US-PATENT-CLASS-235-92R
		US-PATENT-3,854,113				US-PATENT-CLASS-318-231				US-PATENT-CLASS-235-92T
N75-13266* #	c 37	NASA-CASE-NPO-13261-1				US-PATENT-3,860,858				US-PATENT-CLASS-235-92VA
		US-PATENT-APPL-SN-412079		N75-15931* #	c 35	NASA-CASE-MFS-21761-1				US-PATENT-3,866,022
		US-PATENT-CLASS-74-436				US-PATENT-APPL-SN-337816		N75-19520* #	c 33	NASA-CASE-ARC-10364-3
		US-PATENT-CLASS-74-820				US-PATENT-CLASS-200-83N				US-PATENT-APPL-SN-209618
		US-PATENT-3,855,873				US-PATENT-CLASS-73-40				US-PATENT-APPL-SN-462844
N75-13502* #	c 51	NASA-CASE-LAR-11074-1				US-PATENT-CLASS-73-49.2				US-PATENT-CLASS-307-321
		US-PATENT-APPL-SN-326364				US-PATENT-3,859,845				US-PATENT-CLASS-324-DIG.1

		US-PATENT-CLASS-329-166	N75-19686* #	c 37	NASA-CASE-MFS-19193-1	US-PATENT-APPL-SN-374422		
		US-PATENT-CLASS-329-204			US-PATENT-APPL-SN-461477	US-PATENT-CLASS-343-100PE		
		US-PATENT-CLASS-332-47			US-PATENT-CLASS-285-114	US-PATENT-CLASS-343-5GC		
		US-PATENT-3,869,676			US-PATENT-CLASS-285-226	US-PATENT-3,883,872		
N75-19521* #	c 33	NASA-CASE-KSC-10736-1	N75-20139* #	c 77	US-PATENT-3,869,151	N75-25040* #	c 33	NASA-CASE-GSC-11623-1
		US-PATENT-APPL-SN-348787			NASA-CASE-MSC-14143-1			US-PATENT-APPL-SN-389929
		US-PATENT-CLASS-324-102			US-PATENT-APPL-SN-393526			US-PATENT-CLASS-331-1A
		US-PATENT-CLASS-324-113			US-PATENT-CLASS-165-110			US-PATENT-CLASS-331-18
		US-PATENT-3,869,667			US-PATENT-CLASS-165-111			US-PATENT-CLASS-331-25
N75-19522* #	c 33	NASA-CASE-GSC-11844-1			US-PATENT-CLASS-62-285			US-PATENT-3,883,817
		US-PATENT-APPL-SN-452761			US-PATENT-CLASS-62-288	N75-25041* #	c 33	NASA-CASE-ARC-10364-2
		US-PATENT-CLASS-307-227			US-PATENT-CLASS-62-289			US-PATENT-APPL-SN-209618
		US-PATENT-CLASS-321-15			US-PATENT-CLASS-62-290			US-PATENT-APPL-SN-433968
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-62-317			US-PATENT-CLASS-307-321
		US-PATENT-3,869,659			US-PATENT-CLASS-62-93			US-PATENT-CLASS-324-DIG.1
N75-19524* #	c 33	NASA-CASE-NPO-13374-1	N75-20140* #	c 77	US-PATENT-3,868,830			US-PATENT-CLASS-329-166
		US-PATENT-APPL-SN-449118			NASA-CASE-GSC-11752-1			US-PATENT-CLASS-329-202
		US-PATENT-CLASS-318-137			US-PATENT-APPL-SN-446569			US-PATENT-3,883,812
		US-PATENT-CLASS-318-167			US-PATENT-CLASS-219-497	N75-25122* #	c 35	NASA-CASE-NPO-10764-2
		US-PATENT-CLASS-318-176			US-PATENT-CLASS-219-501			US-PATENT-APPL-SN-273519
		US-PATENT-CLASS-318-183			US-PATENT-CLASS-219-505			US-PATENT-APPL-SN-836280
		US-PATENT-3,867,677	N75-21485* #	c 32	US-PATENT-3,869,597			US-PATENT-CLASS-116-114.5
N75-19611* #	c 35	NASA-CASE-LAR-11071-1			NASA-CASE-MSC-12607-1			US-PATENT-CLASS-117-72
		US-PATENT-APPL-SN-334349			US-PATENT-APPL-SN-407323			US-PATENT-CLASS-73-356
		US-PATENT-CLASS-417-138			US-PATENT-CLASS-178-DIG.12			US-PATENT-3,874,240
		US-PATENT-CLASS-417-36			US-PATENT-CLASS-358-36	N75-25123* #	c 35	NASA-CASE-NPO-13214-1
		US-PATENT-CLASS-417-395			US-PATENT-3,875,584			NASA-CASE-NPO-13215-1
		US-PATENT-CLASS-73-221	N75-21486* #	c 32	NASA-CASE-MSC-14558-1			US-PATENT-APPL-SN-394149
		US-PATENT-3,864,060			US-PATENT-APPL-SN-428994			US-PATENT-CLASS-178-DIG.29
N75-19612* #	c 35	NASA-CASE-LAR-11237-1			US-PATENT-CLASS-178-58A			US-PATENT-CLASS-178-7.2
		US-PATENT-APPL-SN-402868			US-PATENT-CLASS-178-79			US-PATENT-3,883,689
		US-PATENT-CLASS-340-242			US-PATENT-3,875,332	N75-25124* #	c 35	NASA-CASE-MFS-21704-1
		US-PATENT-CLASS-73-46	N75-21582* #	c 35	NASA-CASE-MFS-22671-1			US-PATENT-APPL-SN-386793
		US-PATENT-CLASS-73-49.2			US-PATENT-APPL-SN-419831			US-PATENT-CLASS-350-3.5
		US-PATENT-3,864,960			US-PATENT-CLASS-178-69A			US-PATENT-3,883,215
N75-19613* #	c 35	NASA-CASE-LAR-11207-1			US-PATENT-CLASS-235-181	N75-25185* #	c 37	NASA-CASE-NPO-13360-1
		US-PATENT-APPL-SN-385013			US-PATENT-CLASS-324-57PS			US-PATENT-APPL-SN-401920
		US-PATENT-CLASS-178-DIG.20			US-PATENT-CLASS-324-77H			US-PATENT-CLASS-228-1
		US-PATENT-CLASS-250-332			US-PATENT-CLASS-325-67			US-PATENT-CLASS-251-333
		US-PATENT-CLASS-356-186			US-PATENT-3,875,500			US-PATENT-3,874,635
		US-PATENT-CLASS-356-189	N75-21631* #	c 37	NASA-CASE-LEW-11274-1	N75-25186* #	c 37	NASA-CASE-MFS-22649-1
		US-PATENT-CLASS-356-83			US-PATENT-APPL-SN-380630			US-PATENT-APPL-SN-398901
		US-PATENT-CLASS-356-96			US-PATENT-CLASS-277-134			US-PATENT-CLASS-408-112
		US-PATENT-3,869,212			US-PATENT-CLASS-277-27			US-PATENT-CLASS-408-186
N75-19614* #	c 35	NASA-CASE-LAR-11173-1			US-PATENT-CLASS-277-40			US-PATENT-CLASS-408-193
		US-PATENT-APPL-SN-354408			US-PATENT-3,874,677			US-PATENT-CLASS-408-195
		US-PATENT-CLASS-332-2	N75-23910* #	c 35	NASA-CASE-NPO-13327-1			US-PATENT-3,877,833
		US-PATENT-CLASS-73-557			US-PATENT-APPL-SN-429437	N75-25503* #	c 51	NASA-CASE-ARC-10722-1
		US-PATENT-3,868,856			US-PATENT-CLASS-247-171			US-PATENT-APPL-SN-428995
N75-19615* #	c 35	NASA-CASE-MFS-22189-1			US-PATENT-CLASS-250-203			US-PATENT-CLASS-47-1.2
		US-PATENT-APPL-SN-405342			US-PATENT-CLASS-250-211R			US-PATENT-CLASS-47-39
		US-PATENT-CLASS-33-148D			US-PATENT-3,875,404			US-PATENT-CLASS-47-58
		US-PATENT-CLASS-73-143	N75-24716* #	c 05	NASA-CASE-MSC-14339-1			US-PATENT-3,882,634
		US-PATENT-3,864,953			US-PATENT-APPL-SN-347953	N75-25706* #	c 74	NASA-CASE-HQN-10542-1
N75-19616* #	c 35	NASA-CASE-MFS-20932-1			US-PATENT-CLASS-128.2.06E			US-PATENT-APPL-SN-163151
		US-PATENT-APPL-SN-374441			US-PATENT-CLASS-128-DIG.4			US-PATENT-CLASS-178-DIG.25
		US-PATENT-CLASS-250-505			US-PATENT-CLASS-128-2.06B			US-PATENT-CLASS-250-566
		US-PATENT-CLASS-250-508			US-PATENT-3,882,846			US-PATENT-CLASS-350-311
		US-PATENT-CLASS-250-510	N75-24736* #	c 07	NASA-CASE-ARC-10754-1			US-PATENT-3,883,436
		US-PATENT-3,869,615			US-PATENT-APPL-SN-398886	N75-25730* #	c 76	NASA-CASE-GSC-11425-2
N75-19652* #	c 36	NASA-CASE-NPO-13131-1			US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-206266
		US-PATENT-APPL-SN-390468			US-PATENT-CLASS-244-53B			US-PATENT-APPL-SN-394206
		US-PATENT-CLASS-178-7.1			US-PATENT-3,883,095			US-PATENT-CLASS-357-23
		US-PATENT-CLASS-250-211R	N75-24758* #	c 09	NASA-CASE-GSC-11127-1			US-PATENT-CLASS-357-29
		US-PATENT-CLASS-250-578			US-PATENT-APPL-SN-401466			US-PATENT-CLASS-357-42
		US-PATENT-CLASS-315-169R			US-PATENT-CLASS-318-314			US-PATENT-CLASS-357-52
		US-PATENT-CLASS-340-173LS			US-PATENT-CLASS-318-318			US-PATENT-CLASS-357-54
		US-PATENT-3,865,975			US-PATENT-CLASS-318-341			US-PATENT-CLASS-357-91
N75-19653* #	c 36	NASA-CASE-HQN-10844-1			US-PATENT-3,883,785			US-PATENT-3,882,530
		US-PATENT-APPL-SN-412080	N75-24774* #	c 12	NASA-CASE-NPO-13263-1	N75-25914* #	c 05	NASA-CASE-LAR-11252-1
		US-PATENT-CLASS-356-106LR			US-PATENT-APPL-SN-393523			US-PATENT-APPL-SN-367268
		US-PATENT-3,869,210			US-PATENT-CLASS-73-505			US-PATENT-CLASS-D12-76
N75-19654* #	c 36	NASA-CASE-GSC-11746-1			US-PATENT-3,882,732			US-PATENT-CLASS-244-13
		US-PATENT-APPL-SN-393528	N75-24794* #	c 14	NASA-CASE-MFS-21488-1			US-PATENT-CLASS-244-15
		US-PATENT-CLASS-331-94.5M			US-PATENT-APPL-SN-359156			US-PATENT-CLASS-244-42DA
		US-PATENT-3,869,680			US-PATENT-CLASS-73-143			US-PATENT-CLASS-244-55
N75-19655* #	c 36	NASA-CASE-LAR-11341-1			US-PATENT-3,882,719			US-PATENT-3,884,432
		US-PATENT-APPL-SN-367293	N75-24837* #	c 20	NASA-CASE-NPO-13303-1	N75-25915* #	c 05	NASA-CASE-ARC-10519-2
		US-PATENT-CLASS-330-4.3			US-PATENT-APPL-SN-457295			US-PATENT-APPL-SN-452767
		US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-310-10			US-PATENT-CLASS-280-150SB
		US-PATENT-3,868,591			US-PATENT-CLASS-310-40			US-PATENT-CLASS-297-385
N75-19683* #	c 37	NASA-CASE-MSC-19095-1			US-PATENT-CLASS-310-40			US-PATENT-CLASS-297-388
		US-PATENT-APPL-SN-415486			US-PATENT-CLASS-310-52			US-PATENT-CLASS-297-389
		US-PATENT-CLASS-219-137			US-PATENT-CLASS-335-216			US-PATENT-3,887,233
		US-PATENT-3,864,542			US-PATENT-CLASS-60-516	N75-26043* #	c 25	NASA-CASE-LAR-11144-1
N75-19684* #	c 37	NASA-CASE-NPO-13345-1			US-PATENT-CLASS-60-530			US-PATENT-APPL-SN-426405
		US-PATENT-APPL-SN-462705			US-PATENT-CLASS-62-3			US-PATENT-CLASS-117-106A
		US-PATENT-CLASS-204-192			US-PATENT-CLASS-62-467			US-PATENT-CLASS-117-107.2
		US-PATENT-CLASS-204-298			US-PATENT-3,875,435			US-PATENT-CLASS-117-201
		US-PATENT-3,864,239	N75-24981* #	c 32	NASA-CASE-GSC-11743-1			US-PATENT-CLASS-118-48
N75-19685* #	c 37	NASA-CASE-MFS-21606-1			US-PATENT-APPL-SN-370271			US-PATENT-CLASS-118-49.1
		US-PATENT-APPL-SN-356555			US-PATENT-CLASS-178-66R			US-PATENT-CLASS-148-175
		US-PATENT-CLASS-292-DIG.14			US-PATENT-CLASS-325-30			US-PATENT-CLASS-252-62.3GA
		US-PATENT-CLASS-292-108			US-PATENT-CLASS-325-60			US-PATENT-3,888,705
		US-PATENT-CLASS-292-122			US-PATENT-3,878,464	N75-26194* #	c 32	NASA-CASE-NPO-13217-1
		US-PATENT-3,869,160	N75-24982* #	c 32	NASA-CASE-NPO-13140-1			US-PATENT-APPL-SN-362145

N75-30562

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N75-30876* #	c 73	NASA-CASE-LEW-11227-1 US-PATENT-APPL-SN-146939 US-PATENT-CLASS-244-15S US-PATENT-CLASS-250-493 US-PATENT-CLASS-250-496 US-PATENT-3,899,680	N75-33369* #	c 35	US-PATENT-CLASS-195-103.5R US-PATENT-3,907,646 NASA-CASE-LAR-11263-1 US-PATENT-APPL-SN-472775 US-PATENT-CLASS-73-141A US-PATENT-3,906,788	N76-14373* #	c 33	US-PATENT-CLASS-343-846 US-PATENT-3,919,710 NASA-CASE-NPO-13451-1 US-PATENT-APPL-SN-501012 US-PATENT-CLASS-235-92SH US-PATENT-CLASS-307-221R US-PATENT-CLASS-328-37
N75-31329* #	c 33	NASA-CASE-NPO-13423-1 US-PATENT-APPL-SN-470429 US-PATENT-CLASS-128-2S US-PATENT-CLASS-338-2 US-PATENT-CLASS-73-88.5 US-PATENT-3,905,356	N75-33395* #	c 37	NASA-CASE-MFS-22283-1 US-PATENT-APPL-SN-387095 US-PATENT-CLASS-279-1B US-PATENT-CLASS-279-107 US-PATENT-CLASS-279-89 US-PATENT-CLASS-29-26A US-PATENT-CLASS-294-116 US-PATENT-CLASS-294-86.33 US-PATENT-3,907,312	N76-14429* #	c 35	NASA-CASE-LAR-11552-1 US-PATENT-APPL-SN-518685 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-212 US-PATENT-3,914,997
N75-31330* #	c 33	NASA-CASE-NPO-13426-1 US-PATENT-APPL-SN-45053 US-PATENT-CLASS-307-225R US-PATENT-CLASS-328-41 US-PATENT-3,906,374	N75-33640* #	c 52	NASA-CASE-LEW-12051-1 US-PATENT-APPL-SN-397478 US-PATENT-CLASS-128-230 US-PATENT-CLASS-128-305 US-PATENT-3,906,954	N76-14430* #	c 35	NASA-CASE-NPO-13170-1 US-PATENT-APPL-SN-382261 US-PATENT-CLASS-338-6 US-PATENT-CLASS-73-88.5R US-PATENT-3,914,991
N75-31331* #	c 33	NASA-CASE-NPO-11156-2 US-PATENT-APPL-SN-174684 US-PATENT-CLASS-307-238 US-PATENT-CLASS-340-173CA US-PATENT-CLASS-357-24 US-PATENT-CLASS-357-7 US-PATENT-3,906,296	N76-14158* #	c 15	NASA-CASE-LAR-11051-1 US-PATENT-APPL-SN-384773 US-PATENT-CLASS-244-165 US-PATENT-CLASS-244-3.21 US-PATENT-CLASS-74-5.7 US-PATENT-3,915,416	N76-14431* #	c 35	NASA-CASE-LEW-11915-1 US-PATENT-APPL-SN-474744 US-PATENT-CLASS-137-15.2 US-PATENT-CLASS-235-151.34 US-PATENT-CLASS-60-39.29 US-PATENT-3,911,260
N75-31332* #	c 33	NASA-CASE-NPO-13348-1 US-PATENT-APPL-SN-452770 US-PATENT-CLASS-250-238 US-PATENT-CLASS-250-370 US-PATENT-CLASS-357-5 US-PATENT-3,906,231	N76-14186* #	c 18	NASA-CASE-MSC-12559-1 US-PATENT-APPL-SN-370582 US-PATENT-CLASS-178-DIG.20 US-PATENT-CLASS-244-161 US-PATENT-CLASS-33-286 US-PATENT-CLASS-35-12 US-PATENT-CLASS-356-153 US-PATENT-3,910,533	N76-14447* #	c 36	NASA-CASE-ARC-10642-1 US-PATENT-APPL-SN-446562 US-PATENT-CLASS-356-106R US-PATENT-CLASS-356-28 US-PATENT-3,915,572
N75-31426* #	c 36	NASA-CASE-ARC-10370-1 US-PATENT-APPL-SN-137391 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5P US-PATENT-3,906,397	N76-14190* #	c 20	NASA-CASE-LEW-11593-1 US-PATENT-APPL-SN-363691 US-PATENT-CLASS-60-39.23 US-PATENT-CLASS-60-39.29 US-PATENT-CLASS-60-39.74R US-PATENT-3,910,035	N76-14460* #	c 37	NASA-CASE-MFS-19194-1 US-PATENT-APPL-SN-483850 US-PATENT-CLASS-285-226 US-PATENT-CLASS-285-265 US-PATENT-3,915,482
N75-31427* #	c 36	NASA-CASE-NPO-13175-1 US-PATENT-APPL-SN-374423 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-161 US-PATENT-CLASS-350-96WG US-PATENT-3,906,393	N76-14191* #	c 20	NASA-CASE-LEW-11118-2 US-PATENT-APPL-SN-436316 US-PATENT-CLASS-239-127.3 US-PATENT-CLASS-60-265 US-PATENT-CLASS-60-267 US-PATENT-3,910,039	N76-14461* #	c 37	NASA-CASE-LEW-11694-2 US-PATENT-APPL-SN-352381 US-PATENT-APPL-SN-462903 US-PATENT-CLASS-29-421 US-PATENT-CLASS-72-363 US-PATENT-CLASS-72-54 US-PATENT-CLASS-72-63 US-PATENT-3,914,969
N75-31446* #	c 37	NASA-CASE-LEW-11925-1 US-PATENT-APPL-SN-450505 US-PATENT-CLASS-308-191 US-PATENT-CLASS-308-195 US-PATENT-CLASS-308-201 US-PATENT-3,905,660	N76-14203* #	c 24	NASA-CASE-NPO-12122-1 US-PATENT-APPL-SN-401921 US-PATENT-CLASS-149-36 US-PATENT-CLASS-423-407 US-PATENT-3,919,014	N76-14463* #	c 37	NASA-CASE-MFS-22323-1 US-PATENT-APPL-SN-474745 US-PATENT-CLASS-137-515.3 US-PATENT-CLASS-137-550 US-PATENT-CLASS-210-429 US-PATENT-CLASS-251-149.6 US-PATENT-3,910,307
N75-32441* #	c 36	NASA-CASE-NPO-13449-1 US-PATENT-APPL-SN-420813 US-PATENT-CLASS-310-11 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5PE US-PATENT-CLASS-331-94.5G US-PATENT-3,906,398	N76-14204* #	c 24	NASA-CASE-MSC-12568-1 US-PATENT-APPL-SN-325784 US-PATENT-CLASS-136-146 US-PATENT-CLASS-136-148 US-PATENT-CLASS-162-102 US-PATENT-CLASS-162-153 US-PATENT-CLASS-162-222 US-PATENT-CLASS-162-228 US-PATENT-3,910,814	N76-14595* #	c 44	NASA-CASE-MFS-22562-1 US-PATENT-APPL-SN-458484 US-PATENT-CLASS-126-270 US-PATENT-CLASS-136-206 US-PATENT-CLASS-204-32R US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-38A US-PATENT-CLASS-204-40 US-PATENT-CLASS-204-42 US-PATENT-CLASS-204-49 US-PATENT-CLASS-29-194 US-PATENT-CLASS-29-195 US-PATENT-CLASS-29-197 US-PATENT-3,920,413
N75-32465* #	c 37	NASA-CASE-ARC-10907-1 US-PATENT-APPL-SN-619986	N76-14264* #	c 27	NASA-CASE-MSC-14182-1 US-PATENT-APPL-SN-419748 US-PATENT-CLASS-403-179 US-PATENT-CLASS-403-28 US-PATENT-CLASS-428-109 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-214 US-PATENT-CLASS-428-416 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-77 US-PATENT-3,920,339	N76-14600* #	c 44	NASA-CASE-LEW-11065-2 US-PATENT-APPL-SN-154930 US-PATENT-APPL-SN-371322 US-PATENT-CLASS-136-89 US-PATENT-CLASS-136-182 US-PATENT-CLASS-136-90 US-PATENT-3,912,541
N75-32581* #	c 44	NASA-CASE-MFS-21628-1 US-PATENT-APPL-SN-421702 US-PATENT-CLASS-126-271 US-PATENT-CLASS-165-105 US-PATENT-CLASS-244-173 US-PATENT-CLASS-60-641 US-PATENT-CLASS-60-659 US-PATENT-3,903,699	N76-14284* #	c 31	NASA-CASE-NPO-13435-1 US-PATENT-APPL-SN-478803 US-PATENT-CLASS-62-129 US-PATENT-CLASS-62-49 US-PATENT-CLASS-73-295 US-PATENT-3,914,950	N76-14601* #	c 44	NASA-CASE-MFS-22749-1 US-PATENT-APPL-SN-483857 US-PATENT-CLASS-136-114 US-PATENT-CLASS-136-162 US-PATENT-CLASS-136-182 US-PATENT-CLASS-136-90 US-PATENT-3,912,541
N75-33181* #	c 24	NASA-CASE-LEW-11484-1 US-PATENT-APPL-SN-356554 US-PATENT-CLASS-117-105.2 US-PATENT-CLASS-117-38 US-PATENT-CLASS-117-46FS US-PATENT-CLASS-117-8.5 US-PATENT-CLASS-29-DIG.24 US-PATENT-CLASS-29-DIG.39 US-PATENT-CLASS-29-527.2 US-PATENT-CLASS-72-46 US-PATENT-3,906,769	N76-14321* #	c 32	NASA-CASE-LAR-11021-1 US-PATENT-APPL-SN-453115 US-PATENT-CLASS-325-304 US-PATENT-CLASS-325-306 US-PATENT-CLASS-325-372 US-PATENT-CLASS-328-145 US-PATENT-CLASS-343-176 US-PATENT-3,916,316	N76-14602* #	c 44	NASA-CASE-NPO-13497-1 US-PATENT-APPL-SN-526448 US-PATENT-CLASS-126-271 US-PATENT-CLASS-237-1A US-PATENT-CLASS-350-211 US-PATENT-3,915,148
N75-33342* #	c 34	NASA-CASE-MSC-14273-1 US-PATENT-APPL-SN-385522 US-PATENT-CLASS-210-234 US-PATENT-CLASS-210-259 US-PATENT-CLASS-210-304 US-PATENT-CLASS-210-333 US-PATENT-CLASS-210-340 US-PATENT-CLASS-210-411 US-PATENT-CLASS-210-425 US-PATENT-CLASS-210-512 US-PATENT-CLASS-210-82 US-PATENT-3,907,686	N76-14371* #	c 33	NASA-CASE-KSC-10834-1 US-PATENT-APPL-SN-536535 US-PATENT-CLASS-178-69.5R US-PATENT-CLASS-178-88 US-PATENT-CLASS-328-190 US-PATENT-CLASS-328-63 US-PATENT-3,916,084	N76-14757* #	c 52	NASA-CASE-MSC-14180-1 US-PATENT-APPL-SN-354406 US-PATENT-CLASS-128-2.06R US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-128-2H US-PATENT-3,910,257
N75-33367* #	c 35	NASA-CASE-LAR-10629-1 US-PATENT-APPL-SN-402867 US-PATENT-CLASS-116-114AH US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-170R US-PATENT-CLASS-73-432PS US-PATENT-3,896,758	N76-14372* #	c 33	NASA-CASE-LAR-10970-1 US-PATENT-APPL-SN-527790 US-PATENT-CLASS-343-770 US-PATENT-CLASS-343-797	N76-14804* #	c 54	NASA-CASE-MSC-14640-1 US-PATENT-APPL-SN-526449 US-PATENT-CLASS-128-2F US-PATENT-CLASS-73-421R US-PATENT-3,915,012
N75-33368* #	c 35	NASA-CASE-LAR-11326-1 US-PATENT-APPL-SN-491416				N76-14818* #	c 60	NASA-CASE-NPO-13422-1 US-PATENT-APPL-SN-521601 US-PATENT-CLASS-340-147C

		US-PATENT-CLASS-340-147R US-PATENT-3,916,380				US-PATENT-APPL-SN-445178 US-PATENT-CLASS-308-122 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-72 US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-3,926,482				US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-210 US-PATENT-CLASS-165-105 US-PATENT-CLASS-310-4 US-PATENT-3,931,532
N76-14931* #	c 75	NASA-CASE-MFS-22287-1 US-PATENT-APPL-SN-438147 US-PATENT-CLASS-315-111.6 US-PATENT-CLASS-73-12 US-PATENT-CLASS-89-8 US-PATENT-3,916,761						N76-17185* #	c 18	NASA-CASE-MSC-12561-1 US-PATENT-APPL-SN-448323 US-PATENT-CLASS-244-162 US-PATENT-CLASS-244-172 US-PATENT-3,929,306
N76-15189* #	c 12	NASA-CASE-MSC-12611-1 US-PATENT-APPL-SN-446560 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-293 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-250 US-PATENT-3,927,227		N76-15860* #	c 72	NASA-CASE-LEW-11866-1 US-PATENT-APPL-SN-500980 US-PATENT-CLASS-250-499 US-PATENT-CLASS-250-500 US-PATENT-3,924,137		N76-17317* #	c 34	NASA-CASE-LAR-10799-2 US-PATENT-APPL-SN-301419 US-PATENT-APPL-SN-419319 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-106 US-PATENT-CLASS-237-60 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-135R US-PATENT-CLASS-417-209 US-PATENT-3,929,305
N76-15268* #	c 23	NASA-CASE-MFS-22355-1 US-PATENT-APPL-SN-487852 US-PATENT-CLASS-260-32.6N US-PATENT-CLASS-260-32.8N US-PATENT-CLASS-260-346.3 US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-571 US-PATENT-CLASS-260-78TF US-PATENT-3,925,312		N76-16014* #	c 02	NASA-CASE-LAR-11575-1 US-PATENT-APPL-SN-527727 US-PATENT-CLASS-244-139 US-PATENT-3,930,628		N76-17656* #	c 45	NASA-CASE-LAR-11675-1 US-PATENT-APPL-SN-557448 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-DIG.8 US-PATENT-CLASS-178-6.8 US-PATENT-CLASS-250-373 US-PATENT-CLASS-340-237S US-PATENT-CLASS-356-207 US-PATENT-3,931,462
N76-15310* #	c 27	NASA-CASE-ARC-10714-1 US-PATENT-APPL-SN-398885 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-427-196 US-PATENT-CLASS-427-426 US-PATENT-CLASS-428-303 US-PATENT-3,916,060		N76-16228* #	c 27	NASA-CASE-NPO-12061-1 US-PATENT-APPL-SN-45549 US-PATENT-CLASS-260-879 US-PATENT-CLASS-260-900 US-PATENT-CLASS-260-92.1 US-PATENT-3,931,132		N76-17951* #	c 75	NASA-CASE-MFS-22145-2 US-PATENT-APPL-SN-367606 US-PATENT-APPL-SN-500982 US-PATENT-CLASS-124-1 US-PATENT-CLASS-124-11R US-PATENT-CLASS-89-8 US-PATENT-3,929,119
N76-15311* #	c 27	NASA-CASE-NPO-13120-1 US-PATENT-APPL-SN-348422 US-PATENT-CLASS-29-182.5 US-PATENT-3,926,567		N76-16229* #	c 27	NASA-CASE-LEW-11179-1 US-PATENT-APPL-SN-357312 US-PATENT-CLASS-29-195A US-PATENT-CLASS-427-203 US-PATENT-CLASS-427-204 US-PATENT-CLASS-427-205 US-PATENT-CLASS-427-270 US-PATENT-CLASS-427-275 US-PATENT-CLASS-427-287 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-469 US-PATENT-CLASS-428-539 US-PATENT-3,931,447		N76-18117* #	c 07	NASA-CASE-LAR-11674-1 US-PATENT-APPL-SN-331759 US-PATENT-APPL-SN-488616 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-3,938,742
N76-15329* #	c 32	NASA-CASE-GSC-11968-1 US-PATENT-APPL-SN-512825 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-876 US-PATENT-3,927,408		N76-16230* #	c 27	NASA-CASE-ARC-10813-1 US-PATENT-APPL-SN-437556 US-PATENT-CLASS-264-331 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-911 US-PATENT-CLASS-428-920 US-PATENT-CLASS-428-921 US-PATENT-3,928,708		N76-18245* #	c 25	NASA-CASE-NPO-13063-1 US-PATENT-APPL-SN-227977 US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-253R US-PATENT-CLASS-23-254R US-PATENT-CLASS-23-255R US-PATENT-CLASS-235-151.13 US-PATENT-CLASS-73-23.1 US-PATENT-3,860,393
N76-15330* #	c 32	NASA-CASE-LAR-11112-1 US-PATENT-APPL-SN-491419 US-PATENT-CLASS-343-786 US-PATENT-3,924,237		N76-16249* #	c 32	NASA-CASE-MSC-14557-1 US-PATENT-APPL-SN-428994 US-PATENT-APPL-SN-464720 US-PATENT-CLASS-178-69C US-PATENT-CLASS-178-68 US-PATENT-CLASS-325-321 US-PATENT-3,924,068		N76-18257* #	c 26	NASA-CASE-MFS-22907-1 US-PATENT-APPL-SN-518546 US-PATENT-CLASS-324-34R US-PATENT-3,938,037
N76-15373* #	c 33	NASA-CASE-LEW-11938-1 US-PATENT-APPL-SN-544611 US-PATENT-CLASS-317-258 US-PATENT-CLASS-317-261 US-PATENT-3,924,164		N76-16331* #	c 33	NASA-CASE-MSC-14649-1 US-PATENT-APPL-SN-505819 US-PATENT-CLASS-324-79D US-PATENT-CLASS-328-134 US-PATENT-3,924,183		N76-18295* #	c 32	NASA-CASE-GSC-11862-1 US-PATENT-APPL-SN-500979 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-912 US-PATENT-CLASS-343-915 US-PATENT-3,938,162
N76-15431* #	c 35	NASA-CASE-MSC-13802-2 US-PATENT-APPL-SN-189438 US-PATENT-APPL-SN-475338 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-423 US-PATENT-3,916,187		N76-16332* #	c 33	NASA-CASE-GSC-11849-1 US-PATENT-APPL-SN-470428 US-PATENT-CLASS-174-145 US-PATENT-CLASS-174-148 US-PATENT-CLASS-339-143C US-PATENT-CLASS-339-198R US-PATENT-CLASS-339-242 US-PATENT-CLASS-339-275R US-PATENT-3,931,456		N76-18345* #	c 33	NASA-CASE-NPO-13385-1 US-PATENT-APPL-SN-501011 US-PATENT-CLASS-340-347AD US-PATENT-3,938,188
N76-15432* #	c 35	NASA-CASE-LAR-11435-1 US-PATENT-APPL-SN-522556 US-PATENT-CLASS-310-8.2 US-PATENT-CLASS-73-1R US-PATENT-3,924,444		N76-16390* #	c 35	NASA-CASE-NPO-13388-1 US-PATENT-APPL-SN-522552 US-PATENT-CLASS-324-43R US-PATENT-3,924,176		N76-18353* #	c 33	NASA-CASE-GSC-11925-1 US-PATENT-APPL-SN-538983 US-PATENT-CLASS-360-26 US-PATENT-CLASS-360-51 US-PATENT-3,938,182
N76-15433* #	c 35	NASA-CASE-GSC-11892-1 US-PATENT-APPL-SN-502135 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-489 US-PATENT-3,927,324		N76-16391* #	c 35	NASA-CASE-NPO-10166-2 US-PATENT-APPL-SN-192803 US-PATENT-APPL-SN-668116 US-PATENT-CLASS-360-10 US-PATENT-CLASS-360-101 US-PATENT-CLASS-360-35 US-PATENT-CLASS-360-9 US-PATENT-3,924,267		N76-18364* #	c 34	NASA-CASE-LAR-11570-1 US-PATENT-APPL-SN-482967 US-PATENT-CLASS-244-23D US-PATENT-CLASS-60-316 US-PATENT-3,940,097
N76-15434* #	c 35	NASA-CASE-LEW-11072-2 US-PATENT-APPL-SN-254323 US-PATENT-CLASS-136-211 US-PATENT-CLASS-136-212 US-PATENT-CLASS-136-225 US-PATENT-3,925,104		N76-16392* #	c 35	NASA-CASE-LAR-11458-1 US-PATENT-APPL-SN-504225 US-PATENT-CLASS-294-1R US-PATENT-CLASS-294-19R US-PATENT-3,929,364		N76-18374* #	c 34	NASA-CASE-MFS-22938-1 US-PATENT-APPL-SN-542754 US-PATENT-CLASS-250-335 US-PATENT-3,940,621
N76-15435* #	c 35	NASA-CASE-NPO-13506-1 US-PATENT-APPL-SN-483851 US-PATENT-CLASS-343-909 US-PATENT-3,924,239		N76-16393* #	c 35	NASA-CASE-GSC-11889-1 US-PATENT-APPL-SN-502124 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-288 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-423 US-PATENT-3,931,516		N76-18400* #	c 35	NASA-CASE-LAR-10208-1 US-PATENT-APPL-SN-483858 US-PATENT-CLASS-73-103 US-PATENT-CLASS-73-95 US-PATENT-3,938,373
N76-15436* #	c 35	NASA-CASE-GSC-11895-1 US-PATENT-APPL-SN-511887 US-PATENT-CLASS-331-3 US-PATENT-CLASS-331-94 US-PATENT-3,924,200		N76-16446* #	c 37	NASA-CASE-NPO-13342-1 US-PATENT-APPL-SN-390049		N76-18401* #	c 35	NASA-CASE-NPO-13396-1 US-PATENT-APPL-SN-563283 US-PATENT-CLASS-55-261 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-421.5R US-PATENT-3,938,367
N76-15457* #	c 37	NASA-CASE-MFS-22707-1 US-PATENT-APPL-SN-535410 US-PATENT-CLASS-214-1R US-PATENT-CLASS-74-384 US-PATENT-CLASS-74-665B US-PATENT-3,922,930		N76-16612* #	c 44	NASA-CASE-MFS-22002-1 US-PATENT-APPL-SN-452769		N76-18402* #	c 35	NASA-CASE-MFS-22517-1 US-PATENT-APPL-SN-506804 US-PATENT-CLASS-350-3.5
N76-15460* #	c 37	NASA-CASE-MFS-22022-1 US-PATENT-APPL-SN-405341 US-PATENT-CLASS-214-1CM US-PATENT-3,923,166								
N76-15461* #	c 37	NASA-CASE-LEW-11076-4 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483								

N76-18403* #	c 35	US-PATENT-3,937,555 NASA-CASE-ARC-10322-1 US-PATENT-APPL-SN-484209 US-PATENT-CLASS-23-254EF US-PATENT-3,938,956	N76-19339* #	c 33	US-PATENT-CLASS-73-88.5SD US-PATENT-3,937,212 NASA-CASE-ARC-10810-1 US-PATENT-APPL-SN-489009 US-PATENT-CLASS-204-195R US-PATENT-CLASS-215-247 US-PATENT-CLASS-324-30B US-PATENT-3,938,035	N76-21554* #	c 37	NASA-CASE-LAR-11465-1 US-PATENT-APPL-SN-502137 US-PATENT-CLASS-156-286 US-PATENT-CLASS-156-382 US-PATENT-CLASS-156-556 US-PATENT-CLASS-248-362 US-PATENT-CLASS-248-363 US-PATENT-CLASS-269-21 US-PATENT-CLASS-33-1G US-PATENT-CLASS-33-174B US-PATENT-3,945,879
N76-18427* #	c 36	NASA-CASE-NPO-11945-1 US-PATENT-APPL-SN-269450 US-PATENT-CLASS-331-94.5 US-PATENT-CLASS-332-7.51 US-PATENT-CLASS-350-150 US-PATENT-CLASS-350-160 US-PATENT-CLASS-423-352 US-PATENT-CLASS-423-644 US-PATENT-3,806,834	N76-19436* #	c 37	NASA-CASE-MFS-20607-1 US-PATENT-APPL-SN-478800 US-PATENT-CLASS-222-145 US-PATENT-CLASS-259-4AC US-PATENT-3,941,355	N76-21742* #	c 45	NASA-CASE-NPO-13474-1 US-PATENT-APPL-SN-521817 US-PATENT-CLASS-23-254E US-PATENT-CLASS-250-574 US-PATENT-CLASS-356-37 US-PATENT-3,945,801
N76-18428* #	c 36	NASA-CASE-NPO-13544-1 US-PATENT-APPL-SN-533555 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-3,939,439	N76-19437* #	c 37	NASA-CASE-MS-12615-1 US-PATENT-APPL-SN-491417 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-163 US-PATENT-CLASS-29-432 US-PATENT-CLASS-29-433 US-PATENT-CLASS-29-526 US-PATENT-CLASS-52-705 US-PATENT-CLASS-52-706 US-PATENT-CLASS-52-758F US-PATENT-3,936,927	N76-21914* #	c 60	NASA-CASE-NPO-13139-1 US-PATENT-APPL-SN-393524 US-PATENT-CLASS-235-153AE US-PATENT-CLASS-340-172.5 US-PATENT-3,950,729
N76-18454* #	c 37	NASA-CASE-MFS-23047-1 US-PATENT-APPL-SN-521602 US-PATENT-CLASS-173-132 US-PATENT-CLASS-29-81D US-PATENT-CLASS-72-453 US-PATENT-CLASS-73-399 US-PATENT-3,937,055	N76-19785* #	c 52	NASA-CASE-LAR-11667-1 US-PATENT-APPL-SN-583487 US-PATENT-CLASS-128-DIG.20 US-PATENT-CLASS-128-26 US-PATENT-3,937,215	N76-22154* #	c 02	NASA-CASE-LAR-10585-1 US-PATENT-APPL-SN-197183 US-PATENT-CLASS-244-35R US-PATENT-CLASS-244-40R US-PATENT-3,952,971
N76-18455* #	c 37	NASA-CASE-MS-14435-1 US-PATENT-APPL-SN-450500 US-PATENT-CLASS-228-193 US-PATENT-CLASS-228-206 US-PATENT-CLASS-228-214 US-PATENT-CLASS-228-238 US-PATENT-3,937,387	N76-19888* #	c 66	NASA-CASE-MFS-22631-1 US-PATENT-APPL-SN-531572 US-PATENT-CLASS-340-38P US-PATENT-CLASS-356-162 US-PATENT-CLASS-356-167 US-PATENT-CLASS-356-71 US-PATENT-3,930,735	N76-22245* #	c 17	NASA-CASE-GSC-11868-1 US-PATENT-APPL-SN-565290 US-PATENT-CLASS-178-69.5 US-PATENT-CLASS-328-155 US-PATENT-CLASS-340-147SY US-PATENT-CLASS-340-207P US-PATENT-3,953,674
N76-18456* #	c 37	NASA-CASE-LAR-11224-1 US-PATENT-APPL-SN-450502 US-PATENT-CLASS-134-21 US-PATENT-CLASS-134-37 US-PATENT-CLASS-19-205 US-PATENT-CLASS-209-250 US-PATENT-CLASS-209-300 US-PATENT-CLASS-209-305 US-PATENT-3,937,661	N76-19935* #	c 74	NASA-CASE-MFS-21672-1 US-PATENT-APPL-SN-354060 US-PATENT-CLASS-356-123 US-PATENT-CLASS-356-124 US-PATENT-3,938,892	N76-22284* #	c 19	NASA-CASE-MFS-22905-1 US-PATENT-APPL-SN-518545 US-PATENT-CLASS-188-1B US-PATENT-CLASS-248-22 US-PATENT-CLASS-248-358R US-PATENT-3,952,980
N76-18457* #	c 37	NASA-CASE-NPO-13402-1 US-PATENT-APPL-SN-387342 US-PATENT-CLASS-123-DIG.12 US-PATENT-CLASS-123-119E US-PATENT-CLASS-123-120 US-PATENT-CLASS-123-121 US-PATENT-CLASS-123-89A US-PATENT-3,906,913	N76-20114* #	c 04	NASA-CASE-LAR-11387-1 US-PATENT-APPL-SN-531647 US-PATENT-CLASS-33-356 US-PATENT-CLASS-75-178R US-PATENT-3,943,763	N76-22296* #	c 20	NASA-CASE-MFS-19220-1 US-PATENT-APPL-SN-571821 US-PATENT-CLASS-254-124 US-PATENT-CLASS-254-93R US-PATENT-CLASS-89-1.801 US-PATENT-3,952,998
N76-18458* #	c 37	NASA-CASE-LEW-11860-1 US-PATENT-APPL-SN-527728 US-PATENT-CLASS-204-157.1H US-PATENT-CLASS-250-527 US-PATENT-3,939,048	N76-20480* #	c 37	NASA-CASE-NPO-13059-1 NASA-CASE-NPO-13436-1 US-PATENT-APPL-SN-513690 US-PATENT-CLASS-81-56 US-PATENT-CLASS-81-57.31 US-PATENT-3,942,398	N76-22309* #	c 24	NASA-CASE-LEW-11930-1 US-PATENT-APPL-SN-513611 US-PATENT-CLASS-252-12 US-PATENT-3,953,343
N76-18459* #	c 37	NASA-CASE-GSC-11551-1 US-PATENT-APPL-SN-440917 US-PATENT-CLASS-308-10 US-PATENT-3,937,533	N76-20958* #	c 74	NASA-CASE-ARC-10631-1 US-PATENT-APPL-SN-514546 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-573 US-PATENT-3,943,368	N76-22323* #	c 25	NASA-CASE-ARC-10760-1 US-PATENT-APPL-SN-526438 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-344 US-PATENT-CLASS-250-432R US-PATENT-3,953,734
N76-18641* #	c 44	NASA-CASE-NPO-13237-1 US-PATENT-APPL-SN-378127 US-PATENT-CLASS-136-83R US-PATENT-CLASS-136-86S US-PATENT-3,894,887	N76-20994* #	c 76	NASA-CASE-NPO-13443-1 US-PATENT-APPL-SN-522551 US-PATENT-CLASS-324-158D US-PATENT-CLASS-324-158R US-PATENT-CLASS-324-158T US-PATENT-CLASS-324-60C US-PATENT-3,943,442	N76-22376* #	c 27	NASA-CASE-ARC-10721-1 US-PATENT-APPL-SN-427775 US-PATENT-CLASS-264-60 US-PATENT-CLASS-264-63 US-PATENT-CLASS-264-66 US-PATENT-3,952,083
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		US-PATENT-CLASS-356-114			US-PATENT-CLASS-244-169					US-PATENT-APPL-SN-637268
		US-PATENT-CLASS-356-209			US-PATENT-CLASS-244-171					US-PATENT-CLASS-250-338
		US-PATENT-CLASS-356-244			US-PATENT-CLASS-244-3.21					US-PATENT-CLASS-250-339
		US-PATENT-3,977,787			US-PATENT-3,984,072					US-PATENT-CLASS-250-347
N76-31512* #	c 36	NASA-CASE-NPO-13490-1	N77-10148* #	c 20	NASA-CASE-LEW-12082-1					US-PATENT-CLASS-356-106R
		US-PATENT-APPL-SN-549418			US-PATENT-APPL-SN-612964					US-PATENT-3,984,685
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-313-231.4			N77-10780* #	c 52	NASA-CASE-ARC-10855-1
		US-PATENT-CLASS-331-94			US-PATENT-CLASS-313-240					US-PATENT-APPL-SN-617612
		US-PATENT-3,978,417			US-PATENT-CLASS-313-361					US-PATENT-CLASS-128-2H
N76-31524* #	c 37	NASA-CASE-NPO-13535-1			US-PATENT-CLASS-315-111.3					US-PATENT-CLASS-73-343R
		US-PATENT-APPL-SN-563050			US-PATENT-CLASS-60-202					US-PATENT-3,983,753
		US-PATENT-CLASS-264-129			US-PATENT-3,983,695			N77-10899* #	c 74	NASA-CASE-MSC-19442-1
		US-PATENT-CLASS-264-161	N77-10213* #	c 28	NASA-CASE-LAR-11995-1					US-PATENT-APPL-SN-558600
		US-PATENT-CLASS-264-219			US-PATENT-APPL-SN-238826					US-PATENT-CLASS-356-237
		US-PATENT-CLASS-264-304			US-PATENT-CLASS-102-99					US-PATENT-CLASS-356-239
		US-PATENT-CLASS-264-305			US-PATENT-CLASS-264-3R					US-PATENT-3,985,454
		US-PATENT-CLASS-264-308			US-PATENT-CLASS-86-1R			N77-11397* #	c 37	NASA-CASE-LAR-11549-1
		US-PATENT-CLASS-264-310			US-PATENT-3,983,780					US-PATENT-APPL-SN-537979
		US-PATENT-CLASS-264-318	N77-10229* #	c 31	NASA-CASE-NPO-13459-1					US-PATENT-CLASS-219-118
		US-PATENT-CLASS-264-334			US-PATENT-APPL-SN-598967					US-PATENT-CLASS-219-92
		US-PATENT-CLASS-427-230			US-PATENT-CLASS-62-217					US-PATENT-3,988,561
		US-PATENT-3,978,187			US-PATENT-CLASS-62-51AJT			N77-12239* #	c 32	NASA-CASE-MSC-12506-1
N76-31562* #	c 39	NASA-CASE-MSC-19372-1			US-PATENT-3,983,714					US-PATENT-APPL-SN-545283
		US-PATENT-APPL-SN-517995	N77-10392* #	c 32	NASA-CASE-LAR-11827-1					US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-182-178			US-PATENT-APPL-SN-412379					US-PATENT-3,988,729
		US-PATENT-CLASS-29-467			US-PATENT-APPL-SN-561764			N77-12240* #	c 32	NASA-CASE-NPO-13543-1
		US-PATENT-CLASS-29-526			US-PATENT-CLASS-178-88					NASA-CASE-NPO-13545-1
		US-PATENT-CLASS-52-236			US-PATENT-CLASS-235-150.1					US-PATENT-APPL-SN-589173
		US-PATENT-CLASS-52-637			US-PATENT-CLASS-235-156					US-PATENT-CLASS-325-41
		US-PATENT-CLASS-52-648			US-PATENT-CLASS-325-323					US-PATENT-CLASS-340-146.1AL
		US-PATENT-CLASS-52-651			US-PATENT-CLASS-325-349					US-PATENT-CLASS-340-146.1AQ
		US-PATENT-CLASS-52-726			US-PATENT-CLASS-325-476					US-PATENT-CLASS-340-146.1AV
		US-PATENT-CLASS-52-745			US-PATENT-3,984,634					US-PATENT-3,988,677
		US-PATENT-CLASS-52-749	N77-10428* #	c 33	NASA-CASE-NPO-13512-1			N77-12402* #	c 37	NASA-CASE-MFS-23062-1
		US-PATENT-3,977,147			US-PATENT-APPL-SN-533734					US-PATENT-APPL-SN-591569
N76-31666* #	c 44	NASA-CASE-NPO-13087-2			US-PATENT-CLASS-321-19					US-PATENT-CLASS-60-527
		US-PATENT-APPL-SN-296622			US-PATENT-CLASS-321-2					US-PATENT-3,987,630
		US-PATENT-APPL-SN-462341			US-PATENT-CLASS-323-DIG.1			N77-12721* #	c 60	NASA-CASE-NPO-13428-1
		US-PATENT-CLASS-136-206			US-PATENT-CLASS-323-17					NASA-CASE-NPO-13447-1

			US-PATENT-APPL-SN-495022				US-PATENT-CLASS-242-204				US-PATENT-CLASS-360-25
			US-PATENT-CLASS-179-158A				US-PATENT-CLASS-242-210				US-PATENT-CLASS-360-31
			US-PATENT-CLASS-328-111				US-PATENT-CLASS-242-57				US-PATENT-4,003,084
			US-PATENT-CLASS-340-172.5				US-PATENT-3,995,789		N77-17464* #	c 37	NASA-CASE-GSC-11978-1
			US-PATENT-CLASS-388,716				NASA-CASE-LEW-11496-1				US-PATENT-APPL-SN-593142
N77-13217* #	c 27		NASA-CASE-NPO-13666-1		N77-14580* #	c 44	US-PATENT-APPL-SN-645508				US-PATENT-CLASS-308-10
			US-PATENT-APPL-SN-633877				US-PATENT-CLASS-136-89				US-PATENT-4,000,929
			US-PATENT-CLASS-29-182.5				US-PATENT-CLASS-204-192		N77-17495* #	c 38	NASA-CASE-GSC-11902-1
			US-PATENT-3,990,860				US-PATENT-3,996,067				US-PATENT-APPL-SN-565289
N77-13315* #	c 33		NASA-CASE-NPO-11515-1		N77-14581* #	c 44	NASA-CASE-LEW-12220-1				US-PATENT-CLASS-235-92CA
			US-PATENT-APPL-SN-139596				US-PATENT-APPL-SN-606891				US-PATENT-CLASS-235-92CT
			US-PATENT-CLASS-307-233				US-PATENT-CLASS-320-2				US-PATENT-CLASS-235-92DN
			US-PATENT-CLASS-307-295				US-PATENT-CLASS-429-23				US-PATENT-CLASS-235-92R
			US-PATENT-CLASS-328-133				US-PATENT-CLASS-429-34				US-PATENT-4,001,552
			US-PATENT-3,750,035				US-PATENT-3,996,064		N77-18154* #	c 07	NASA-CASE-ARC-10761-1
N77-13418* #	c 37		NASA-CASE-ARC-10905-1		N77-14735* #	c 52	NASA-CASE-MFS-23225-1				US-PATENT-APPL-SN-612899
			US-PATENT-APPL-SN-618594				US-PATENT-APPL-SN-612965				US-PATENT-CLASS-137-15.1
			US-PATENT-CLASS-219-300				US-PATENT-CLASS-3-1.2				US-PATENT-CLASS-244-53B
			US-PATENT-CLASS-219-304				US-PATENT-CLASS-3-14				US-PATENT-4,007,891
			US-PATENT-CLASS-239-171				US-PATENT-3,995,324		N77-18307* #	c 32	NASA-CASE-MFS-23303-1
			US-PATENT-CLASS-252-359A				NASA-CASE-ARC-11007-1				US-PATENT-APPL-SN-676957
			US-PATENT-3,990,987		N77-14736* #	c 52	NASA-CASE-ARC-11007-1				US-PATENT-CLASS-333-70R
N77-14025* #	c 07		NASA-CASE-LEW-12419-1				US-PATENT-APPL-SN-652948				US-PATENT-CLASS-333-75
			US-PATENT-APPL-SN-579375				US-PATENT-CLASS-128-2H				US-PATENT-CLASS-333-76
			US-PATENT-CLASS-416-153				US-PATENT-CLASS-128-379				US-PATENT-CLASS-333-82B
			US-PATENT-CLASS-416-160				US-PATENT-CLASS-128-400				US-PATENT-4,007,434
			US-PATENT-CLASS-416-162				US-PATENT-CLASS-128-402		N77-18382* #	c 34	NASA-CASE-LAR-10805-2
			US-PATENT-CLASS-416-165				US-PATENT-3,995,621				US-PATENT-APPL-SN-428992
			US-PATENT-CLASS-416-167		N77-14737* #	c 52	NASA-CASE-MSC-14276-1				US-PATENT-APPL-SN-578240
			US-PATENT-CLASS-60-226R				US-PATENT-CLASS-250-363R				US-PATENT-CLASS-244-117A
			US-PATENT-3,994,128				US-PATENT-CLASS-250-444				US-PATENT-CLASS-427-160
N77-14292* #	c 32		NASA-CASE-LAR-11607-1				US-PATENT-CLASS-250-498				US-PATENT-CLASS-427-322
			US-PATENT-APPL-SN-617895				US-PATENT-3,996,471				US-PATENT-CLASS-428-35
			US-PATENT-CLASS-325-145		N77-14738* #	c 52	NASA-CASE-KSC-10849-1				US-PATENT-CLASS-428-421
			US-PATENT-CLASS-332-22				US-PATENT-APPL-SN-613734				US-PATENT-CLASS-428-461
			US-PATENT-CLASS-332-23R				US-PATENT-CLASS-128-418				US-PATENT-CLASS-428-474
			US-PATENT-3,996,532				US-PATENT-CLASS-3-1.1		N77-18417* #	c 35	NASA-CASE-ARC-10898-1
N77-14333* #	c 33		NASA-CASE-GSC-11789-1				US-PATENT-CLASS-339-252R				US-PATENT-APPL-SN-625732
			US-PATENT-APPL-SN-538982				US-PATENT-3,995,644				US-PATENT-CLASS-73-12
			US-PATENT-CLASS-317-31		N77-14751* #	c 60	NASA-CASE-GSC-11839-1				US-PATENT-CLASS-73-432SD
			US-PATENT-CLASS-321-13				US-PATENT-APPL-SN-468614				US-PATENT-CLASS-73-71.6
			US-PATENT-3,996,506				US-PATENT-CLASS-235-152				US-PATENT-4,007,623
N77-14334* #	c 33		NASA-CASE-GSC-12018-1				US-PATENT-CLASS-250-227		N77-18891* #	c 73	NASA-CASE-NPO-13121-1
			US-PATENT-APPL-SN-635531				US-PATENT-CLASS-340-172.5				US-PATENT-APPL-SN-294727
			US-PATENT-CLASS-329-122				US-PATENT-CLASS-350-96R				US-PATENT-CLASS-310-4R
			US-PATENT-CLASS-329-124				US-PATENT-3,996,455				US-PATENT-CLASS-313-311
			US-PATENT-CLASS-331-23		N77-17029* #	c 05	NASA-CASE-ARC-10807-1				US-PATENT-CLASS-346R
			US-PATENT-CLASS-331-36C				US-PATENT-APPL-SN-613612				US-PATENT-4,008,407
			US-PATENT-CLASS-332-30V				US-PATENT-CLASS-416-104		N77-18893* #	c 74	NASA-CASE-MSC-14683-1
			US-PATENT-3,997,848				US-PATENT-CLASS-416-138				US-PATENT-APPL-SN-612967
N77-14335* #	c 33		NASA-CASE-MFS-22560-1				US-PATENT-CLASS-416-141				US-PATENT-CLASS-358-44
			US-PATENT-APPL-SN-589233				US-PATENT-3,999,886				US-PATENT-4,004,292
			US-PATENT-CLASS-250-214A		N77-17059* #	c 07	NASA-CASE-LEW-12760-1				NASA-CASE-LAR-11387-2
			US-PATENT-CLASS-330-14				US-PATENT-APPL-SN-569925		N77-19056* #	c 04	US-PATENT-APPL-SN-531647
			US-PATENT-CLASS-330-28				US-PATENT-CLASS-60-226A				US-PATENT-APPL-SN-623156
			US-PATENT-CLASS-330-59				US-PATENT-60-228				US-PATENT-CLASS-33-356
			US-PATENT-3,996,462				US-PATENT-4,005,574				US-PATENT-CLASS-73-178R
N77-14406* #	c 35		NASA-CASE-NPO-13663-1		N77-17143* #	c 20	NASA-CASE-XLA-1349				US-PATENT-4,006,631
			US-PATENT-APPL-SN-634205				US-PATENT-APPL-SN-256493		N77-19076* #	c 09	NASA-CASE-ARC-10979-1
			US-PATENT-CLASS-250-289				US-PATENT-APPL-SN-54552				US-PATENT-APPL-SN-608483
			US-PATENT-CLASS-250-298				US-PATENT-CLASS-102-49.3				US-PATENT-CLASS-124-6
			US-PATENT-3,996,464				US-PATENT-CLASS-264-3R				US-PATENT-CLASS-244-63
N77-14407* #	c 35		NASA-CASE-LAR-11648-1				US-PATENT-CLASS-86-1R				US-PATENT-3,989,206
			US-PATENT-APPL-SN-645571				US-PATENT-CLASS-86-20R				NASA-CASE-LEW-12550-1
			US-PATENT-CLASS-73-133R				US-PATENT-4,000,682		N77-19170* #	c 24	US-PATENT-APPL-SN-596905
			US-PATENT-3,995,476		N77-17161* #	c 23	NASA-CASE-MSC-14428-1				US-PATENT-CLASS-416-224
N77-14408* #	c 35		NASA-CASE-ARC-10448-3				US-PATENT-APPL-SN-450504				US-PATENT-CLASS-416-230
			US-PATENT-APPL-SN-221670				US-PATENT-CLASS-23-230B				US-PATENT-4,006,999
			US-PATENT-APPL-SN-318848				US-PATENT-CLASS-23-230M		N77-19171* #	c 24	NASA-CASE-LEW-12619-1
			US-PATENT-CLASS-250-396				US-PATENT-CLASS-23-230R				US-PATENT-APPL-SN-462424
			US-PATENT-3,996,468				US-PATENT-CLASS-23-231				US-PATENT-CLASS-204-16
N77-14409* #	c 35		NASA-CASE-NPO-13540-1				US-PATENT-CLASS-23-232C				US-PATENT-CLASS-204-40
			US-PATENT-APPL-SN-526450				US-PATENT-CLASS-23-232R				US-PATENT-CLASS-204-9
			US-PATENT-CLASS-136-232				US-PATENT-CLASS-23-254R				US-PATENT-CLASS-29-527.2
			US-PATENT-CLASS-136-233				US-PATENT-CLASS-55-197				US-PATENT-3,989,602
			US-PATENT-3,996,070				US-PATENT-CLASS-55-67		N77-19353* #	c 34	NASA-CASE-ARC-10912-1
N77-14411* #	c 35		NASA-CASE-NPO-13683-1				US-PATENT-CLASS-55-74				US-PATENT-APPL-SN-623187
			US-PATENT-APPL-SN-599284				US-PATENT-CLASS-73-23.1				US-PATENT-CLASS-62-101
			US-PATENT-CLASS-250-343				US-PATENT-CLASS-73-61.1C				US-PATENT-CLASS-62-121
			US-PATENT-CLASS-356-201				US-PATENT-4,003,257				US-PATENT-CLASS-62-269
			US-PATENT-CLASS-356-204		N77-17351* #	c 33	NASA-CASE-MFS-23181-1				US-PATENT-CLASS-62-315
			US-PATENT-CLASS-356-97				US-PATENT-APPL-SN-566495				US-PATENT-4,007,601
			US-PATENT-3,995,960				US-PATENT-CLASS-331-114		N77-19385* #	c 35	NASA-CASE-MSC-14653-1
N77-14477* #	c 37		NASA-CASE-FRC-10081-1				US-PATENT-CLASS-331-177V				US-PATENT-APPL-SN-521816
			US-PATENT-APPL-SN-598504				US-PATENT-CLASS-332-18				US-PATENT-CLASS-177-1
			US-PATENT-CLASS-280-432				US-PATENT-CLASS-332-30V				US-PATENT-CLASS-177-208
			US-PATENT-3,995,877				US-PATENT-4,003,004				US-PATENT-CLASS-73-432R
N77-14478* #	c 37		NASA-CASE-LAR-11658-1		N77-17354* #	c 33	NASA-CASE-LEW-11881-1				US-PATENT-3,988,933
			US-PATENT-APPL-SN-625759				US-PATENT-APPL-SN-598968				NASA-CASE-XNP-04167-3
			US-PATENT-CLASS-83-451				US-PATENT-CLASS-307-229		N77-19416* #	c 36	US-PATENT-APPL-SN-170544
			US-PATENT-CLASS-83-467R				US-PATENT-CLASS-307-230				US-PATENT-APPL-SN-479357
			US-PATENT-3,995,522				US-PATENT-CLASS-328-161				US-PATENT-CLASS-331-94.5D
N77-14479* #	c 37		NASA-CASE-GSC-11960-1				US-PATENT-4,001,602				US-PATENT-CLASS-331-94.5G
			US-PATENT-APPL-SN-629456		N77-17426* #	c 35	NASA-CASE-MFS-22671-1				US-PATENT-CLASS-331-94.5PE
			US-PATENT-CLASS-242-187				US-PATENT-APPL-SN-419831				US-PATENT-4,007,430
			US-PATENT-CLASS-242-193				US-PATENT-APPL-SN-561956				

N77-19457* #	c 37	NASA-CASE-MFS-15218-1 US-PATENT-APPL-SN-387094 US-PATENT-CLASS-197-188 US-PATENT-CLASS-197-190 US-PATENT-3,989,136	US-PATENT-APPL-SN-385059 US-PATENT-CLASS-313-161 US-PATENT-CLASS-313-184 US-PATENT-CLASS-313-224 US-PATENT-CLASS-313-32 US-PATENT-CLASS-315-344 US-PATENT-3,881,132	N77-23106* #	c 07	NASA-CASE-LEW-12830-1 US-PATENT-APPL-SN-596641 US-PATENT-APPL-SN-655149 US-PATENT-CLASS-123-122E US-PATENT-CLASS-123-41.33 US-PATENT-CLASS-137-101 US-PATENT-CLASS-415-180 US-PATENT-CLASS-60-39.03 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,020,632		
N77-19458* #	c 37	NASA-CASE-GSC-11883-1 NASA-CASE-GSC-11974-1 NASA-CASE-GSC-11975-1 US-PATENT-APPL-SN-596787 US-PATENT-CLASS-310-4A US-PATENT-CLASS-337-334 US-PATENT-CLASS-340-224 US-PATENT-CLASS-60-527 US-PATENT-CLASS-75-122.7 US-PATENT-CLASS-75-170 US-PATENT-4,010,455	N77-21316* #	c 33	NASA-CASE-NPO-10790-1 US-PATENT-APPL-SN-841278 US-PATENT-CLASS-313-175 US-PATENT-CLASS-313-180 US-PATENT-CLASS-313-184 US-PATENT-CLASS-315-108 US-PATENT-CLASS-315-110 US-PATENT-3,621,330	N77-23482* #	c 37	NASA-CASE-LAR-11563-1 US-PATENT-APPL-SN-672815 US-PATENT-CLASS-29-DIG.35 US-PATENT-CLASS-29-447 US-PATENT-CLASS-403-273 US-PATENT-CLASS-53-9 US-PATENT-4,017,959
N77-19571* #	c 44	NASA-CASE-LEW-11549-1 US-PATENT-APPL-SN-510677 US-PATENT-CLASS-136-89 US-PATENT-3,989,541	N77-21392* #	c 35	NASA-CASE-NPO-10711-1 US-PATENT-APPL-SN-844315 US-PATENT-CLASS-179-100.2C US-PATENT-3,697,705	N77-23483* #	c 37	NASA-CASE-MFS-23088-1 US-PATENT-APPL-SN-602617 US-PATENT-CLASS-213-81 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-244-161 US-PATENT-4,018,409
N77-19760* #	c 60	NASA-CASE-ARC-10899-1 US-PATENT-APPL-SN-576774 US-PATENT-CLASS-178-69.5R US-PATENT-CLASS-179-158S US-PATENT-CLASS-340-172.5 US-PATENT-3,990,049	N77-21393* #	c 35	NASA-CASE-NPO-10619-1 US-PATENT-APPL-SN-757017 US-PATENT-CLASS-338-25 US-PATENT-3,555,483	N77-24328* #	c 32	NASA-CASE-ARC-10984-1 US-PATENT-APPL-SN-690815 US-PATENT-CLASS-358-133 US-PATENT-CLASS-358-138 US-PATENT-4,025,950
N77-20162* #	c 20	NASA-CASE-LEW-12048-1 US-PATENT-APPL-SN-665033 US-PATENT-CLASS-313-230 US-PATENT-CLASS-313-231.3 US-PATENT-CLASS-313-360 US-PATENT-CLASS-315-111.3 US-PATENT-CLASS-315-111.6 US-PATENT-CLASS-60-202 US-PATENT-4,011,719	N77-21844* #	c 54	NASA-CASE-MFS-23074-1 US-PATENT-APPL-SN-623188 US-PATENT-CLASS-188-291 US-PATENT-CLASS-254-158 US-PATENT-4,018,423	N77-24331* #	c 32	NASA-CASE-MS-14840-1 US-PATENT-APPL-SN-692414 US-PATENT-CLASS-178-88 US-PATENT-CLASS-325-346 US-PATENT-CLASS-329-104 US-PATENT-CLASS-329-122 US-PATENT-4,027,265
N77-20201* #	c 26	NASA-CASE-LEW-12245-1 US-PATENT-APPL-SN-584094 US-PATENT-CLASS-148-12.7N US-PATENT-CLASS-148-162 US-PATENT-CLASS-148-2 US-PATENT-CLASS-148-20.3 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-4,012,237	N77-22386* #	c 33	NASA-CASE-NPO-10870-1 NASA-CASE-NPO-11191-1 NASA-CASE-NPO-11403-1 US-PATENT-APPL-SN-108810 US-PATENT-CLASS-313-146 US-PATENT-CLASS-313-182 US-PATENT-CLASS-313-60 US-PATENT-3,736,453	N77-24375* #	c 33	NASA-CASE-MS-12709-1 US-PATENT-APPL-SN-630583 US-PATENT-CLASS-307-225R US-PATENT-CLASS-328-38 US-PATENT-CLASS-328-39 US-PATENT-CLASS-328-4-8 US-PATENT-CLASS-328-63 US-PATENT-4,025,866
N77-20289* #	c 32	NASA-CASE-NPO-13753-1 US-PATENT-APPL-SN-658449 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-6.BR US-PATENT-CLASS-343-6.5R US-PATENT-4,012,696	N77-22449* #	c 35	NASA-CASE-LAR-11825-1 US-PATENT-APPL-SN-632112 US-PATENT-CLASS-73-88R US-PATENT-4,018,085	N77-24423* #	c 34	NASA-CASE-LAR-12045-1 US-PATENT-APPL-SN-682416 US-PATENT-CLASS-259/4R US-PATENT-CLASS-261-DIG.75 US-PATENT-CLASS-261-123 US-PATENT-4,026,527
N77-20399* #	c 35	NASA-CASE-ARC-10716-1 US-PATENT-APPL-SN-403695 US-PATENT-CLASS-235-150.2 US-PATENT-CLASS-235-150.25 US-PATENT-CLASS-244-165 US-PATENT-CLASS-244-171 US-PATENT-CLASS-244-3.21 US-PATENT-4,012,018	N77-22450* #	c 35	NASA-CASE-MFS-23281-1 US-PATENT-APPL-SN-657995 US-PATENT-CLASS-73-15.6 US-PATENT-CLASS-73-95 US-PATENT-4,018,080	N77-24454* #	c 35	NASA-CASE-ARC-10900-1 US-PATENT-APPL-SN-630579 US-PATENT-CLASS-338-229 US-PATENT-CLASS-338-28 US-PATENT-4,025,891
N77-20400* #	c 35	NASA-CASE-ARC-10911-1 US-PATENT-APPL-SN-610802 US-PATENT-CLASS-338-28 US-PATENT-CLASS-73-204 US-PATENT-4,011,756	N77-22479* #	c 37	NASA-CASE-NPO-10316-1 US-PATENT-APPL-SN-703107 US-PATENT-CLASS-60-53 US-PATENT-3,478,514	N77-24455* #	c 35	NASA-CASE-GSC-12077-1 US-PATENT-APPL-SN-635519 US-PATENT-CLASS-65-108 US-PATENT-CLASS-65-59A US-PATENT-CLASS-6554 US-PATENT-CLASS-6564 US-PATENT-4,025,327
N77-20401* #	c 35	NASA-CASE-MFS-23267-1 US-PATENT-APPL-SN-653422 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-250-203R US-PATENT-4,011,854	N77-22480* #	c 37	NASA-CASE-NPO-13058-1 NASA-CASE-NPO-13096-1 US-PATENT-APPL-SN-403154 US-PATENT-CLASS-214-16.1CB US-PATENT-3,896,955	N77-25499* #	c 36	NASA-CASE-GSC-11571-1 US-PATENT-APPL-SN-646704 US-PATENT-CLASS-331-94.5S US-PATENT-4,025,875
N77-20882* #	c 74	NASA-CASE-LAR-11782-1 US-PATENT-APPL-SN-608482 US-PATENT-CLASS-350-145 US-PATENT-CLASS-350-174 US-PATENT-4,012,123	N77-22482* #	c 37	NASA-CASE-MS-19536-1 US-PATENT-APPL-SN-658450 US-PATENT-CLASS-74-96 US-PATENT-4,018,092	N77-25501* #	c 36	NASA-CASE-ARC-10970-1 US-PATENT-APPL-SN-691046 US-PATENT-CLASS-250-574 US-PATENT-CLASS-350-100 US-PATENT-CLASS-350-102 US-PATENT-CLASS-356-28 US-PATENT-4,026,655
N77-21267* #	c 32	NASA-CASE-LAR-11390-1 US-PATENT-APPL-SN-662176 US-PATENT-CLASS-340-5H US-PATENT-CLASS-343-18B US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-5MM US-PATENT-4,019,179	N77-22606* #	c 44	NASA-CASE-LEW-12364-1 US-PATENT-APPL-SN-707124 US-PATENT-CLASS-253-317 US-PATENT-CLASS-429-105 US-PATENT-CLASS-429-107 US-PATENT-CLASS-429-190 US-PATENT-4,018,971	N77-25502* #	c 36	NASA-CASE-NPO-13147-1 US-PATENT-APPL-SN-317310 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5D US-PATENT-CLASS-331-94.5P US-PATENT-4,027,273
N77-21314* #	c 33	NASA-CASE-NPO-10189-1 NASA-CASE-NPO-10781-1 US-PATENT-APPL-SN-744522 US-PATENT-CLASS-307-232 US-PATENT-CLASS-307-238 US-PATENT-CLASS-307-280 US-PATENT-CLASS-329-119 US-PATENT-CLASS-329-205 US-PATENT-CLASS-332-16 US-PATENT-CLASS-332-30 US-PATENT-CLASS-332-52 US-PATENT-3,582,828	N77-22607* #	c 44	NASA-CASE-LAR-11361-1 US-PATENT-APPL-SN-669928 US-PATENT-CLASS-23-277R US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-648R US-PATENT-CLASS-55-158 US-PATENT-4,019,868	N77-25769* #	c 51	NASA-CASE-LAR-10773-3 US-PATENT-APPL-SN-125235 US-PATENT-APPL-SN-314656 US-PATENT-APPL-SN-623238 US-PATENT-CLASS-195-1.8 US-PATENT-4,018,649
N77-21315* #	c 33	NASA-CASE-NPO-11510-1 US-PATENT-APPL-SN-173178	N77-22950* #	c 74	NASA-CASE-ARC-10976-1 US-PATENT-APPL-SN-665032 US-PATENT-CLASS-356-171 US-PATENT-4,018,533	N77-25772* #	c 52	NASA-CASE-KSC-11030-1 US-PATENT-APPL-SN-709849 US-PATENT-CLASS-128-1R US-PATENT-CLASS-3-1 US-PATENT-CLASS-339,12R US-PATENT-4,025,964
			N77-22951* #	c 74	NASA-CASE-NPO-13722-1 US-PATENT-APPL-SN-616472 US-PATENT-CLASS-250-203R US-PATENT-CLASS-250-211K US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-172 US-PATENT-4,018,532	N77-26385* #	c 33	NASA-CASE-LEW-11978-1 US-PATENT-APPL-SN-708658 US-PATENT-CLASS-204-32A US-PATENT-CLASS-29-597 US-PATENT-CLASS-29-622

		US-PATENT-CLASS-29-628			US-PATENT-CLASS-8-3			US-PATENT-4,039,347
		US-PATENT-CLASS-29-630E			US-PATENT-CLASS-8-94.11	N77-30308* #	c 32	NASA-CASE-GSC-12017-1
		US-PATENT-4,023,266			US-PATENT-4,029,470			US-PATENT-APPL-SN-645510
N77-26386* #	c 33	NASA-CASE-GSC-11824-1	N77-28118* #	c 07	NASA-CASE-LAR-11310-1			US-PATENT-CLASS-325-30
		US-PATENT-APPL-SN-583486			US-PATENT-APPL-SN-394898			US-PATENT-CLASS-325-42
		US-PATENT-CLASS-318-138			US-PATENT-CLASS-415-145			US-PATENT-CLASS-325-473
		US-PATENT-CLASS-318-227			US-PATENT-CLASS-60-226R			US-PATENT-CLASS-325-65
		US-PATENT-CLASS-318-254			US-PATENT-CLASS-60-263			US-PATENT-4,041,391
		US-PATENT-4,027,212			US-PATENT-4,033,119	N77-30309* #	c 32	NASA-CASE-GSC-11898-1
N77-26387* #	c 33	NASA-CASE-LAR-11389-1	N77-28225* #	c 24	NASA-CASE-MS-12631-1			US-PATENT-APPL-SN-566494
		US-PATENT-APPL-SN-229143			US-PATENT-APPL-SN-568541			US-PATENT-CLASS-179-1SA
		US-PATENT-APPL-SN-340862			US-PATENT-CLASS-156-229			US-PATENT-CLASS-179-1SP
		US-PATENT-CLASS-310-111			US-PATENT-CLASS-244-123			US-PATENT-4,039,754
		US-PATENT-CLASS-310-168			US-PATENT-CLASS-428-141	N77-30365* #	c 33	NASA-CASE-NPO-13812-1
		US-PATENT-CLASS-322-96			US-PATENT-CLASS-428-161			US-PATENT-APPL-SN-694855
		US-PATENT-3,849,720			US-PATENT-CLASS-428-425			US-PATENT-CLASS-307-64
N77-26477* #	c 36	NASA-CASE-NPO-13550-1			US-PATENT-CLASS-428-457			US-PATENT-CLASS-363-53
		US-PATENT-APPL-SN-483301			US-PATENT-CLASS-428-458			US-PATENT-CLASS-363-70
		US-PATENT-CLASS-250-281			US-PATENT-4,032,089			US-PATENT-4,039,925
		US-PATENT-CLASS-250-282	N77-28265* #	c 26	NASA-CASE-LEW-11573-1	N77-30399* #	c 34	NASA-CASE-MFS-19287-1
		US-PATENT-CLASS-250-283			US-PATENT-APPL-SN-625733			US-PATENT-APPL-SN-641802
		US-PATENT-CLASS-250-423P			US-PATENT-CLASS-228-190			US-PATENT-CLASS-137-207
		US-PATENT-4,031,389			US-PATENT-CLASS-228-194			US-PATENT-CLASS-137-209
N77-26919* #	c 71	NASA-CASE-NPO-13673-1			US-PATENT-CLASS-228-232			US-PATENT-CLASS-60-259
		US-PATENT-APPL-SN-613004			US-PATENT-4,033,504			US-PATENT-CLASS-62-55
		US-PATENT-CLASS-330-5.5	N77-28346* #	c 32	NASA-CASE-GSC-12053-1			US-PATENT-4,039,000
		US-PATENT-CLASS-331-107A			US-PATENT-APPL-SN-667930	N77-30436* #	c 35	NASA-CASE-MFS-23175-1
		US-PATENT-CLASS-333-72			US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-667928
		US-PATENT-4,025,876			US-PATENT-CLASS-250-238			US-PATENT-CLASS-324-163
N77-26942* #	c 74	NASA-CASE-GSC-12058-1			US-PATENT-4,033,882			US-PATENT-CLASS-324-165
		US-PATENT-APPL-SN-680938	N77-28385* #	c 33	NASA-CASE-LEW-12444-1			US-PATENT-CLASS-324-174
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-583485			US-PATENT-CLASS-340-271
		US-PATENT-4,025,783			US-PATENT-CLASS-123-148CB			US-PATENT-CLASS-340-347P
N77-27116* #	c 07	NASA-CASE-LEW-12608-1			US-PATENT-CLASS-123-148E			US-PATENT-CLASS-340-347SY
		US-PATENT-APPL-SN-680067			US-PATENT-CLASS-315-176			US-PATENT-4,039,946
		US-PATENT-CLASS-416-220R			US-PATENT-4,033,316	N77-30749* #	c 54	NASA-CASE-KSC-11004-1
		US-PATENT-CLASS-416-221	N77-28486* #	c 37	NASA-CASE-LEW-11158-1			US-PATENT-APPL-SN-710032
		US-PATENT-4,033,705			US-PATENT-APPL-SN-663008			US-PATENT-CLASS-3-2
N77-27131* #	c 09	NASA-CASE-LAR-11883-1			US-PATENT-CLASS-308-5R			US-PATENT-CLASS-3-21
		US-PATENT-APPL-SN-662175			US-PATENT-CLASS-308-73			US-PATENT-4,038,705
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-308-9	N77-31308* #	c 27	NASA-CASE-NPO-11609-2
		US-PATENT-4,027,524			US-PATENT-4,035,037			US-PATENT-APPL-SN-228229
N77-27187* #	c 24	NASA-CASE-MFS-22926-1	N77-28487* #	c 37	NASA-CASE-MS-14905-1			US-PATENT-APPL-SN-674700
		US-PATENT-APPL-SN-557565			US-PATENT-APPL-SN-708795			US-PATENT-CLASS-210-DIG.27
		US-PATENT-CLASS-164-60			US-PATENT-CLASS-128-DIG.12			US-PATENT-CLASS-210-40
		US-PATENT-CLASS-75-135			US-PATENT-CLASS-128-214F			US-PATENT-CLASS-260-2.5A
		US-PATENT-CLASS-75-139			US-PATENT-CLASS-222-61			US-PATENT-CLASS-260-2.5AM
		US-PATENT-CLASS-75-65R			US-PATENT-CLASS-222-95			US-PATENT-CLASS-260-2.5AY
		US-PATENT-4,029,500			US-PATENT-4,033,479			US-PATENT-CLASS-260-77.5AP
N77-27188* #	c 24	NASA-CASE-LEW-12118-1	N77-28511* #	c 39	NASA-CASE-MFS-23299-1			US-PATENT-4,039,489
		US-PATENT-APPL-SN-616332			US-PATENT-APPL-SN-700673	N77-31350* #	c 32	NASA-CASE-GSC-12075-1
		US-PATENT-CLASS-428-301			US-PATENT-CLASS-73-67.7			US-PATENT-APPL-SN-562499
		US-PATENT-CLASS-428-328			US-PATENT-CLASS-73-88R			US-PATENT-CLASS-343-17.7
		US-PATENT-CLASS-428-368			US-PATENT-4,033,182			US-PATENT-4,042,926
		US-PATENT-CLASS-428-418	N77-28716* #	c 52	NASA-CASE-LEW-12258-1	N77-31404* #	c 33	NASA-CASE-ARC-10897-1
		US-PATENT-CLASS-428-457			US-PATENT-APPL-SN-676433			US-PATENT-APPL-SN-625781
		US-PATENT-CLASS-428-902			US-PATENT-CLASS-128-1R			US-PATENT-CLASS-323-93
		US-PATENT-CLASS-428-911			US-PATENT-CLASS-128-303R			US-PATENT-CLASS-324-60
		US-PATENT-4,029,838			US-PATENT-4,033,349			US-PATENT-CLASS-340-200
N77-27345* #	c 34	NASA-CASE-ARC-10974-1	N77-28717* #	c 52	NASA-CASE-MS-14623-1			US-PATENT-CLASS-340-347SH
		US-PATENT-APPL-SN-667010			US-PATENT-APPL-SN-637269			US-PATENT-4,040,041
		US-PATENT-CLASS-73-189			US-PATENT-CLASS-128-DIG.4	N77-31465* #	c 35	NASA-CASE-MFS-23118-1
		US-PATENT-CLASS-73-228			US-PATENT-CLASS-128-2.1E			US-PATENT-APPL-SN-691256
		US-PATENT-4,028,939			US-PATENT-CLASS-128-410			US-PATENT-CLASS-356-212
N77-27366* #	c 35	NASA-CASE-GSC-12059-1			US-PATENT-4,033,334			US-PATENT-4,040,750
		US-PATENT-APPL-SN-680957	N77-28932* #	c 74	NASA-CASE-GSC-11989-1	N77-31497* #	c 37	NASA-CASE-NPO-13671-1
		US-PATENT-CLASS-331-94.5D			US-PATENT-APPL-SN-645500			US-PATENT-APPL-SN-564622
		US-PATENT-CLASS-331-94.5T			US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-123-DIG.8
		US-PATENT-CLASS-350-253			US-PATENT-CLASS-350-202			US-PATENT-CLASS-123-119A
		US-PATENT-4,030,047			US-PATENT-CLASS-350-299			US-PATENT-CLASS-123-122AB
N77-27367* #	c 35	NASA-CASE-NPO-11103-1			US-PATENT-4,035,062			US-PATENT-CLASS-123-3
		US-PATENT-APPL-SN-3654	N77-28933* #	c 74	NASA-CASE-NPO-13707-1			US-PATENT-CLASS-123-37
		US-PATENT-CLASS-73-84			US-PATENT-APPL-SN-617202			US-PATENT-CLASS-123-59E
		US-PATENT-3,623,359			US-PATENT-CLASS-350-288			US-PATENT-4,041,910
N77-27368* #	c 35	NASA-CASE-MS-12327-1			US-PATENT-CLASS-350-310	N77-31601* #	c 44	NASA-CASE-LEW-12587-1
		US-PATENT-APPL-SN-19572			US-PATENT-CLASS-350-320			US-PATENT-APPL-SN-717319
		US-PATENT-CLASS-73-362AR			US-PATENT-4,035,065			US-PATENT-CLASS-136-89AC
		US-PATENT-3,613,454	N77-29260* #	c 26	NASA-CASE-MFS-23405-1			US-PATENT-CLASS-136-89P
N77-27400* #	c 37	NASA-CASE-GSC-11063-1			US-PATENT-APPL-SN-718267			US-PATENT-CLASS-52-173R
		US-PATENT-APPL-SN-41431			US-PATENT-CLASS-228-124			US-PATENT-CLASS-52-51
		US-PATENT-CLASS-318-267			US-PATENT-CLASS-228-263	N77-32148* #	c 07	NASA-CASE-LEW-12312-1
		US-PATENT-CLASS-318-468			US-PATENT-4,033,503			US-PATENT-APPL-SN-654787
		US-PATENT-CLASS-318-470	N77-30236* #	c 27	NASA-CASE-NPO-13620-1			US-PATENT-CLASS-416-135
		US-PATENT-CLASS-318-675			US-PATENT-APPL-SN-666992			US-PATENT-CLASS-416-190A
		US-PATENT-3,628,113			US-PATENT-CLASS-210-24			US-PATENT-CLASS-416-193A
N77-27677* #	c 51	NASA-CASE-LAR-11649-1			US-PATENT-CLASS-536-105			US-PATENT-CLASS-416-241A
		US-PATENT-APPL-SN-626942			US-PATENT-CLASS-536-85			US-PATENT-4,045,149
		US-PATENT-CLASS-118-313			US-PATENT-CLASS-536-56	N77-32255* #	c 25	NASA-CASE-NPO-13566-1
		US-PATENT-CLASS-118-6			US-PATENT-CLASS-536-58			US-PATENT-APPL-SN-653316
		US-PATENT-CLASS-118-7			US-PATENT-CLASS-536-84			US-PATENT-CLASS-204-DIG.11
		US-PATENT-CLASS-118-9			US-PATENT-4,041,233			US-PATENT-CLASS-204-157.1R
		US-PATENT-CLASS-23-253A	N77-30237* #	c 27	NASA-CASE-MFS-23345-1			US-PATENT-CLASS-204-158R
		US-PATENT-CLASS-23-259			US-PATENT-APPL-SN-696989			US-PATENT-CLASS-204-162R
		US-PATENT-CLASS-23-292			US-PATENT-CLASS-106-292			US-PATENT-CLASS-204-162R
		US-PATENT-CLASS-424-3			US-PATENT-CLASS-106-296			US-PATENT-CLASS-250-527
		US-PATENT-CLASS-427-4			US-PATENT-CLASS-106-299			US-PATENT-4,045,359

N77-32279* #	c 26	NASA-CASE-LEW-12906-1 US-PATENT-APPL-SN-691936 US-PATENT-CLASS-148-32 US-PATENT-CLASS-75-170 US-PATENT-4,045,255	N77-32731* #	c 60	NASA-CASE-GSC-11839-3 US-PATENT-APPL-SN-468614 US-PATENT-CLASS-250-199 US-PATENT-CLASS-340-347AD US-PATENT-CLASS-350-96R US-PATENT-4,045,792	N78-10686* #	c 52	NASA-CASE-ARC-10916-1 US-PATENT-APPL-SN-701448 US-PATENT-CLASS-3-1.2 US-PATENT-CLASS-3-15 US-PATENT-CLASS-3-29 US-PATENT-4,051,558
N77-32280* #	c 26	NASA-CASE-LEW-12270-1 US-PATENT-APPL-SN-645507 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-4,046,560	N77-32919* #	c 76	NASA-CASE-MFS-23001-1 US-PATENT-APPL-SN-610801 US-PATENT-CLASS-156-DIG.62 US-PATENT-CLASS-156-601 US-PATENT-CLASS-156-619 US-PATENT-CLASS-156-620 US-PATENT-4,046,617	N78-10709* #	c 60	NASA-CASE-GSC-11839-2 US-PATENT-APPL-SN-468614 US-PATENT-APPL-SN-657996 US-PATENT-CLASS-340-173LM US-PATENT-CLASS-350-96R US-PATENT-CLASS-356-169 US-PATENT-4,052,705
N77-32308* #	c 27	NASA-CASE-GSC-12110-1 US-PATENT-APPL-SN-682435 US-PATENT-CLASS-156-645 US-PATENT-CLASS-156-663 US-PATENT-4,046,619	N78-10214* #	c 24	NASA-CASE-LAR-11898-1 US-PATENT-APPL-SN-723264 US-PATENT-CLASS-428-116 US-PATENT-CLASS-428-138 US-PATENT-CLASS-428-73 US-PATENT-CLASS-428-902 US-PATENT-4,052,523	N78-10837* #	c 71	NASA-CASE-NPO-13802-1 US-PATENT-APPL-SN-658133 US-PATENT-CLASS-264-23 US-PATENT-CLASS-264-345 US-PATENT-CLASS-65-DIG.4 US-PATENT-CLASS-65-DIG.7 US-PATENT-CLASS-65-102 US-PATENT-CLASS-65-2 US-PATENT-CLASS-65-32 US-PATENT-CLASS-65-4B US-PATENT-CLASS-65-87 US-PATENT-CLASS-73-505 US-PATENT-4,052,181
N77-32342* #	c 32	NASA-CASE-NPO-13587-1 US-PATENT-APPL-SN-589119 US-PATENT-CLASS-343-10 US-PATENT-CLASS-343-100CL US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-5DP US-PATENT-4,045,795	N78-10224* #	c 25	NASA-CASE-LEW-12137-1 US-PATENT-APPL-SN-672210 US-PATENT-CLASS-165-105 US-PATENT-CLASS-431-158 US-PATENT-CLASS-431-352 US-PATENT-CLASS-60-39.51R US-PATENT-4,052,144	N78-12390* #	c 35	NASA-CASE-MSC-14773-1 US-PATENT-APPL-SN-612966 US-PATENT-CLASS-137-197 US-PATENT-CLASS-210-222 US-PATENT-CLASS-55-100 US-PATENT-CLASS-55-26-9 US-PATENT-CLASS-55-3 US-PATENT-CLASS-62-50 US-PATENT-CLASS-62-514R US-PATENT-4,027,494
N77-32413* #	c 34	NASA-CASE-GSC-11998-1 US-PATENT-APPL-SN-579989 US-PATENT-CLASS-165-105 US-PATENT-4,046,190	N78-10225* #	c 25	NASA-CASE-MSC-14831-1 US-PATENT-APPL-SN-685027 US-PATENT-CLASS-204-292 US-PATENT-CLASS-210-63R US-PATENT-CLASS-210-71 US-PATENT-CLASS-252-472 US-PATENT-CLASS-427-229 US-PATENT-4,052,302	N78-13320* #	c 33	NASA-CASE-MFS-23274-1 US-PATENT-APPL-SN-714158 US-PATENT-CLASS-307-306 US-PATENT-CLASS-338-32S US-PATENT-CLASS-357-4 US-PATENT-CLASS-357-5 US-PATENT-CLASS-357-73 US-PATENT-4,055,847
N77-32454* #	c 35	NASA-CASE-LEW-12050-1 US-PATENT-APPL-SN-629457 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-236R US-PATENT-CLASS-136-240 US-PATENT-4,045,247	N78-10375* #	c 33	NASA-CASE-MSC-14916-1 US-PATENT-APPL-SN-739914 US-PATENT-CLASS-179-107R US-PATENT-CLASS-179-175.1A US-PATENT-CLASS-330-2 US-PATENT-4,049,930	N78-13400* #	c 35	NASA-CASE-ARC-10639-1 US-PATENT-APPL-SN-643043 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-351 US-PATENT-4,055,764
N77-32455* #	c 35	NASA-CASE-NPO-13792-1 US-PATENT-APPL-SN-677351 US-PATENT-CLASS-324-57H US-PATENT-CLASS-324-59 US-PATENT-4,045,728	N78-10376* #	c 33	NASA-CASE-MFS-23280-1 US-PATENT-APPL-SN-706425 US-PATENT-CLASS-318-200 US-PATENT-CLASS-318-227 US-PATENT-CLASS-318-230 US-PATENT-4,052,648	N78-13436* #	c 37	NASA-CASE-LEW-12083-1 US-PATENT-APPL-SN-659882 US-PATENT-CLASS-250-499 US-PATENT-CLASS-313-61S US-PATENT-CLASS-427-124 US-PATENT-CLASS-427-126 US-PATENT-CLASS-427-248E US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-255 US-PATENT-4,055,686
N77-32456* #	c 35	NASA-CASE-GSC-12143-1 US-PATENT-APPL-SN-743249 US-PATENT-CLASS-250-288 US-PATENT-CLASS-73-421.5R US-PATENT-4,046,012	N78-10428* #	c 35	NASA-CASE-MSC-14757-1 US-PATENT-APPL-SN-625734 US-PATENT-CLASS-141-197 US-PATENT-CLASS-141-4 US-PATENT-CLASS-417-225 US-PATENT-CLASS-60-560 US-PATENT-CLASS-60-574 US-PATENT-4,051,877	N78-13526* #	c 44	NASA-CASE-NPO-13482-1 US-PATENT-APPL-SN-495021 US-PATENT-CLASS-136-89SJ US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-16 US-PATENT-CLASS-357-30 US-PATENT-4,053,918
N77-32478* #	c 36	NASA-CASE-LEW-12164-1 US-PATENT-APPL-SN-511334 US-PATENT-CLASS-350-162SF US-PATENT-4,043,674	N78-10429* #	c 35	NASA-CASE-NPO-13772-1 US-PATENT-APPL-SN-675351 US-PATENT-CLASS-250-310 US-PATENT-CLASS-250-398 US-PATENT-4,052,614	N78-13874* #	c 74	NASA-CASE-GSC-12088-1 US-PATENT-APPL-SN-648700 US-PATENT-CLASS-356-103 US-PATENT-CLASS-356-104 US-PATENT-4,053,229
N77-32499* #	c 37	NASA-CASE-MSC-19535-1 US-PATENT-APPL-SN-641784 US-PATENT-CLASS-292-110 US-PATENT-4,045,063	N78-10467* #	c 37	NASA-CASE-LEW-12321-1 US-PATENT-APPL-SN-596641 US-PATENT-CLASS-123-122E US-PATENT-CLASS-123-41.33 US-PATENT-CLASS-137-104 US-PATENT-CLASS-415-180 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,041,697	N78-14096* #	c 24	NASA-CASE-ARC-11042-1 US-PATENT-APPL-SN-734902 US-PATENT-CLASS-252-8.1 US-PATENT-CLASS-60-836 US-PATENT-4,061,579
N77-32500* #	c 37	NASA-CASE-LEW-12527-1 US-PATENT-APPL-SN-595747 US-PATENT-CLASS-290-52 US-PATENT-CLASS-308-195 US-PATENT-CLASS-308-72 US-PATENT-4,046,434	N78-10468* #	c 37	NASA-CASE-LEW-12313-1 US-PATENT-APPL-SN-581751 US-PATENT-CLASS-416-135 US-PATENT-CLASS-416-141 US-PATENT-CLASS-416-220R US-PATENT-CLASS-416-248 US-PATENT-4,047,840	N78-14104* #	c 25	NASA-CASE-ARC-10991-1 US-PATENT-APPL-SN-744574 US-PATENT-CLASS-204-180G US-PATENT-CLASS-204-299R US-PATENT-4,061,561
N77-32501* #	c 37	NASA-CASE-LEW-12477-1 US-PATENT-APPL-SN-595745 US-PATENT-CLASS-290-52 US-PATENT-CLASS-308-195 US-PATENT-4,046,435	N78-10493* #	c 39	NASA-CASE-NPO-13731-1 US-PATENT-APPL-SN-653682 US-PATENT-CLASS-73-15.6 US-PATENT-CLASS-73-91 US-PATENT-4,030,348	N78-14164* #	c 27	NASA-CASE-NPO-13867-1 US-PATENT-APPL-SN-692284 US-PATENT-CLASS-260-DIG.15 US-PATENT-CLASS-427-164 US-PATENT-CLASS-428-411 US-PATENT-CLASS-428-522 US-PATENT-CLASS-428-922 US-PATENT-CLASS-96-87A
N77-32580* #	c 44	NASA-CASE-NPO-13675-1 US-PATENT-APPL-SN-658132 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-250-527 US-PATENT-4,045,315	N78-10529* #	c 43	NASA-CASE-GSC-11976-1 US-PATENT-APPL-SN-677352 US-PATENT-CLASS-324-58.5B US-PATENT-4,052,666			
N77-32581* #	c 44	NASA-CASE-NPO-13510-1 US-PATENT-APPL-SN-536786 US-PATENT-CLASS-126-263 US-PATENT-CLASS-165-107 US-PATENT-CLASS-165-2 US-PATENT-CLASS-62-4 US-PATENT-4,044,821	N78-10554* #	c 44	NASA-CASE-NPO-13734-1			
N77-32582* #	c 44	NASA-CASE-NPO-13810-1 US-PATENT-APPL-SN-681096 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-52-117 US-PATENT-CLASS-60-641 US-PATENT-4,044,753						
N77-32583* #	c 44	NASA-CASE-NPO-13736-1 US-PATENT-APPL-SN-681017 US-PATENT-CLASS-350-295 US-PATENT-CLASS-350-320 US-PATENT-CLASS-427-130 US-PATENT-CLASS-427-47 US-PATENT-CLASS-52-2 US-PATENT-4,046,462						
N77-32721* #	c 54	NASA-CASE-ARC-10756-1 US-PATENT-APPL-SN-436313 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-214-1BC US-PATENT-CLASS-214-1CM US-PATENT-4,046,262						
N77-32722* #	c 54	NASA-CASE-MSC-14771-1 US-PATENT-APPL-SN-688854						

N78-14364* #	c 35	US-PATENT-4,061,834	N78-15879* #	c 74	US-PATENT-4,062,347	N78-17214* #	c 27	US-PATENT-CLASS-260-75NT
		NASA-CASE-ARC-11046-1			NASA-CASE-LAR-10385-3			US-PATENT-CLASS-260-77.5AM
		US-PATENT-APPL-SN-712419			US-PATENT-APPL-SN-370999			US-PATENT-CLASS-260-77.5AN
		US-PATENT-CLASS-340-27SS			US-PATENT-APPL-SN-38816			US-PATENT-CLASS-260-77.5AP
N78-14380* #	c 36	US-PATENT-CLASS-73-180	N78-15880* #	c 74	US-PATENT-CLASS-350-1	N78-17215* #	c 27	US-PATENT-CLASS-260-77.5AT
		US-PATENT-4,061,029			US-PATENT-CLASS-428-334			US-PATENT-CLASS-260-77.55P
		NASA-CASE-MFS-19259-1			US-PATENT-CLASS-428-336			US-PATENT-4,069,212
		US-PATENT-APPL-SN-732630			US-PATENT-CLASS-428-426			NASA-CASE-NPO-10557
N78-14452* #	c 43	US-PATENT-CLASS-250-571	N78-16369* #	c 37	US-PATENT-CLASS-428-428	N78-17237* #	c 31	US-PATENT-APPL-SN-759220
		US-PATENT-CLASS-356-159			US-PATENT-4,062,996			US-PATENT-CLASS-260-67
		US-PATENT-CLASS-356-160			NASA-CASE-MFS-22409-2			US-PATENT-3,538,053
		US-PATENT-CLASS-356-199			US-PATENT-APPL-SN-445398			NASA-CASE-NPO-13764-1
N78-14625* #	c 44	US-PATENT-4,061,427	N78-16387* #	c 39	US-PATENT-APPL-SN-636193	N78-17237* #	c 31	US-PATENT-APPL-SN-674194
		NASA-CASE-LEW-12217-1			US-PATENT-CLASS-250-272			US-PATENT-CLASS-128-92C
		US-PATENT-APPL-SN-763753			US-PATENT-CLASS-250-320			US-PATENT-CLASS-128-92G
		US-PATENT-CLASS-166-248			US-PATENT-4,063,088			US-PATENT-CLASS-260-42.17
N78-14773* #	c 52	US-PATENT-CLASS-166-259	N78-17031* #	c 04	US-PATENT-CLASS-13619-1	N78-17238* #	c 31	US-PATENT-CLASS-3-1.9
		US-PATENT-CLASS-320-15			US-PATENT-APPL-SN-572990			US-PATENT-4,064,566
		US-PATENT-CLASS-320-18			US-PATENT-CLASS-185-38			NASA-CASE-LEW-11981-1
		US-PATENT-CLASS-320-40			US-PATENT-CLASS-74-81			US-PATENT-APPL-SN-672220
N78-14784* #	c 54	US-PATENT-CLASS-320-67	N78-17055* #	c 07	US-PATENT-CLASS-74-83	N78-17293* #	c 33	US-PATENT-CLASS-313-22
		US-PATENT-4,061,955			US-PATENT-4,062,245			US-PATENT-CLASS-62-376
		NASA-CASE-LEW-12668-1			NASA-CASE-LAR-11490-1			US-PATENT-CLASS-62-514R
		US-PATENT-APPL-SN-677353			US-PATENT-APPL-SN-707125			US-PATENT-4,068,495
N78-14867* #	c 71	US-PATENT-CLASS-128-305	N78-17056* #	c 07	US-PATENT-CLASS-358-106	N78-17294* #	c 33	NASA-CASE-NPO-11978
		US-PATENT-4,061,146			US-PATENT-4,063,282			US-PATENT-APPL-SN-264268
		NASA-CASE-MS-14632-1			NASA-CASE-XNP-01458			US-PATENT-CLASS-313-175
		US-PATENT-APPL-SN-571459			US-PATENT-APPL-SN-160093			US-PATENT-CLASS-313-176
N78-14889* #	c 74	US-PATENT-CLASS-313-176	N78-17140* #	c 17	US-PATENT-CLASS-235-70	N78-17295* #	c 33	US-PATENT-CLASS-313-180
		US-PATENT-CLASS-313-184			US-PATENT-3,229,905			US-PATENT-CLASS-313-184
		US-PATENT-CLASS-313-224			NASA-CASE-LEW-12317-1			US-PATENT-CLASS-313-224
		US-PATENT-3,769,544			US-PATENT-APPL-SN-581750			US-PATENT-3,769,544
N78-15180* #	c 24	US-PATENT-CLASS-60-204	N78-17149* #	c 24	US-PATENT-CLASS-60-226R	N78-17296* #	c 33	NASA-CASE-XLE-06094
		US-PATENT-CLASS-60-271			US-PATENT-CLASS-74-385			US-PATENT-APPL-SN-523632
		US-PATENT-4,068,469			US-PATENT-CLASS-74-417			US-PATENT-CLASS-315-22
		NASA-CASE-LEW-12390-1			US-PATENT-CLASS-343-112R			US-PATENT-3,423,627
N78-15210* #	c 25	US-PATENT-CLASS-343-225	N78-17150* #	c 24	US-PATENT-CLASS-362-269	N78-17335* #	c 34	NASA-CASE-MS-11235
		US-PATENT-4,067,015			US-PATENT-APPL-SN-522109			US-PATENT-APPL-SN-698239
		NASA-CASE-ARC-10913-1			US-PATENT-CLASS-60-226R			US-PATENT-CLASS-307-270
		US-PATENT-APPL-SN-698646			US-PATENT-CLASS-74-385			US-PATENT-CLASS-307-297
N78-15276* #	c 27	US-PATENT-CLASS-73-646	N78-17150* #	c 24	US-PATENT-CLASS-74-417	N78-17336* #	c 34	US-PATENT-CLASS-323-4
		US-PATENT-4,061,041			US-PATENT-4,068,470			US-PATENT-CLASS-328-172
		NASA-CASE-KSC-11047-1			NASA-CASE-HQN-10880-1			US-PATENT-3,573,504
		US-PATENT-APPL-SN-715485			US-PATENT-APPL-SN-595254			NASA-CASE-XGS-09186
N78-15323* #	c 32	US-PATENT-CLASS-179-91R	N78-17150* #	c 24	US-PATENT-CLASS-325-118	N78-17337* #	c 34	US-PATENT-APPL-SN-669911
		US-PATENT-CLASS-250-199			US-PATENT-CLASS-325-66			US-PATENT-CLASS-323-18
		US-PATENT-CLASS-358-142			US-PATENT-CLASS-343-112R			US-PATENT-3,475,675
		US-PATENT-4,061,577			US-PATENT-CLASS-343-225			NASA-CASE-GSC-10135
N78-15323* #	c 32	US-PATENT-CLASS-362-269	N78-17150* #	c 24	US-PATENT-CLASS-362-269	N78-17338* #	c 34	US-PATENT-APPL-SN-764823
		US-PATENT-4,067,015			US-PATENT-CLASS-362-269			US-PATENT-CLASS-307-53
		NASA-CASE-ARC-10913-1			US-PATENT-4,067,015			US-PATENT-CLASS-307-69
		US-PATENT-APPL-SN-698646			NASA-CASE-LAR-11898-2			US-PATENT-CLASS-320-53
N78-15461* #	c 35	US-PATENT-CLASS-106-15FP	N78-17150* #	c 24	US-PATENT-APPL-SN-723264	N78-17339* #	c 34	US-PATENT-CLASS-320-53
		US-PATENT-CLASS-260-2.5N			US-PATENT-APPL-SN-799024			US-PATENT-CLASS-323-19
		US-PATENT-CLASS-260-2.5R			US-PATENT-CLASS-156-245			US-PATENT-3,600,599
		US-PATENT-CLASS-428-117			US-PATENT-CLASS-156-285			NASA-CASE-LEW-12508-1
N78-15512* #	c 29	US-PATENT-CLASS-428-290	N78-17206* #	c 27	US-PATENT-CLASS-156-289	N78-17366* #	c 36	US-PATENT-APPL-SN-746580
		US-PATENT-CLASS-428-71			US-PATENT-CLASS-156-300			US-PATENT-CLASS-62-3
		US-PATENT-CLASS-428-73			US-PATENT-CLASS-156-306			US-PATENT-4,069,028
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-156-311			NASA-CASE-ARC-10198
N78-15522* #	c 32	US-PATENT-4,061,812	N78-17206* #	c 27	US-PATENT-CLASS-264-157	N78-17367* #	c 36	US-PATENT-APPL-SN-42088
		NASA-CASE-LAR-12046-1			US-PATENT-CLASS-264-90			US-PATENT-CLASS-165-105
		US-PATENT-APPL-SN-755310			US-PATENT-CLASS-428-294			US-PATENT-CLASS-165-134
		US-PATENT-CLASS-23-230PC			US-PATENT-CLASS-428-302			US-PATENT-3,777,811
N78-15527* #	c 27	US-PATENT-CLASS-23-232E	N78-17206* #	c 27	US-PATENT-CLASS-428-302	N78-17368* #	c 36	NASA-CASE-ARC-10199
		US-PATENT-CLASS-23-232R			US-PATENT-4,063,981			US-PATENT-APPL-SN-824628
		US-PATENT-CLASS-73-23			NASA-CASE-LAR-12019-1			US-PATENT-CLASS-165-105
		US-PATENT-4,062,650			US-PATENT-APPL-SN-792067			US-PATENT-CLASS-165-32
N78-15527* #	c 27	US-PATENT-CLASS-156-245	N78-17206* #	c 27	US-PATENT-CLASS-156-285	N78-17369* #	c 36	US-PATENT-CLASS-165-96
		US-PATENT-CLASS-156-285			US-PATENT-CLASS-156-289			US-PATENT-CLASS-2-2.1
		US-PATENT-CLASS-156-289			US-PATENT-CLASS-156-300			US-PATENT-3,543,839
		US-PATENT-CLASS-156-306			US-PATENT-CLASS-156-311			NASA-CASE-MFS-23194-1
N78-15528* #	c 32	US-PATENT-CLASS-264-157	N78-17206* #	c 27	US-PATENT-CLASS-264-90	N78-17370* #	c 36	US-PATENT-APPL-SN-629458
		US-PATENT-CLASS-264-157			US-PATENT-CLASS-428-294			US-PATENT-CLASS-350-3.5
		US-PATENT-CLASS-264-90			US-PATENT-CLASS-428-302			US-PATENT-4,065,202
		US-PATENT-CLASS-428-294			US-PATENT-CLASS-428-302			NASA-CASE-MS-11242
N78-15528* #	c 32	US-PATENT-4,065,340	N78-17206* #	c 27	US-PATENT-4,065,340	N78-17371* #	c 36	US-PATENT-APPL-SN-636796
		NASA-CASE-LAR-12181-1			NASA-CASE-LAR-11902-1			US-PATENT-APPL-SN-636796
		US-PATENT-APPL-SN-532784			US-PATENT-APPL-SN-672695			US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-734901			US-PATENT-CLASS-106-43			US-PATENT-3,492,858
N78-15529* #	c 32	US-PATENT-CLASS-156-309	N78-17206* #	c 27	US-PATENT-CLASS-60-200A	N78-17372* #	c 36	US-PATENT-CLASS-331-94.5T
		US-PATENT-CLASS-156-331			US-PATENT-CLASS-75-229			US-PATENT-CLASS-331-94.5T
		US-PATENT-CLASS-260-30.4N			US-PATENT-CLASS-75-239			US-PATENT-3,882,417
		US-PATENT-CLASS-260-32.2R			US-PATENT-CLASS-75-241			NASA-CASE-MS-19666-1
N78-15529* #	c 32	US-PATENT-CLASS-260-33.4R	N78-17206* #	c 27	US-PATENT-4,067,742	N78-17383* #	c 37	US-PATENT-APPL-SN-721150
		US-PATENT-4,065,345			NASA-CASE-MS-14331-2			US-PATENT-CLASS-118-50
		NASA-CASE-LAR-11902-1			US-PATENT-APPL-SN-657907			US-PATENT-CLASS-118-500
		US-PATENT-APPL-SN-672695			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-248-36-3
N78-15530* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15531* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
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		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15531* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15532* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15532* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15533* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15533* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15534* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15534* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15535* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15535* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15536* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15536* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15537* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
N78-15537* #	c 32	US-PATENT-CLASS-260-75NH	N78-17206* #	c 27	US-PATENT-CLASS-260-75NH	N78-17383* #	c 37	US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH			US-PATENT-CLASS-260-75NH
		US-PATENT-CLASS-260-75NH			US-PATENT-CLASS			

		US-PATENT-CLASS-279-3			US-PATENT-CLASS-244-53A			US-PATENT-CLASS-428-667
		US-PATENT-CLASS-51-235			US-PATENT-CLASS-244-54			US-PATENT-CLASS-428-679
		US-PATENT-4,066,039			US-PATENT-CLASS-60-226R			US-PATENT-4,055,707
N78-17384* #	c 37	NASA-CASE-LEW-12916-1			US-PATENT-CLASS-60-39.31	N78-19920* #	c 73	NASA-CASE-HQN-10841-1
		US-PATENT-APPL-SN-583056			US-PATENT-4,055,041			US-PATENT-APPL-SN-560891
		US-PATENT-CLASS-60-261	N78-18067* #	c 07	NASA-CASE-LEW-12917-1			US-PATENT-CLASS-176-39
		US-PATENT-CLASS-60-262			US-PATENT-APPL-SN-583055			US-PATENT-CLASS-330-4.3
		US-PATENT-CLASS-60-271			US-PATENT-CLASS-60-204			US-PATENT-4,075,057
		US-PATENT-4,064,692			US-PATENT-CLASS-60-262	N78-24275* #	c 20	NASA-CASE-LAR-12018-1
N78-17385* #	c 37	NASA-CASE-WOO-00625			US-PATENT-4,069,661			US-PATENT-APPL-SN-678520
		US-PATENT-APPL-SN-362278	N78-18083* #	c 09	NASA-CASE-ARC-10903-1			US-PATENT-CLASS-102-39
		US-PATENT-CLASS-74-800			US-PATENT-APPL-SN-623536			US-PATENT-CLASS-102-49.7
		US-PATENT-3,306,134			US-PATENT-CLASS-35-12N			US-PATENT-CLASS-102-70R
N78-17386* #	c 37	NASA-CASE-NPO-10151			US-PATENT-CLASS-358-104			US-PATENT-CLASS-285-192
		US-PATENT-APPL-SN-365244			US-PATENT-4,055,004			US-PATENT-CLASS-60-39.82E
		US-PATENT-CLASS-328-233	N78-18182* #	c 26	NASA-CASE-LEW-12095-1			US-PATENT-4,080,901
		US-PATENT-3,387,218			US-PATENT-APPL-SN-651009	N78-24290* #	c 24	NASA-CASE-MFS-23506-1
N78-17395* #	c 38	NASA-CASE-NPO-13283			US-PATENT-CLASS-75-124			US-PATENT-APPL-SN-760809
		US-PATENT-APPL-SN-401225			US-PATENT-CLASS-75-126D			US-PATENT-CLASS-260-2.5AK
		US-PATENT-CLASS-235-151.3			US-PATENT-CLASS-75-126F			US-PATENT-CLASS-260-2.5AP
		US-PATENT-CLASS-235-156			US-PATENT-CLASS-75-128G			US-PATENT-CLASS-260-2.5B
		US-PATENT-CLASS-235-181			US-PATENT-CLASS-75-128T			US-PATENT-CLASS-260-2.5BE
		US-PATENT-CLASS-250-572			US-PATENT-4,055,416			US-PATENT-CLASS-260-2.5EP
		US-PATENT-CLASS-356-237	N78-18183* #	c 26	NASA-CASE-LEW-12905-1			US-PATENT-CLASS-260-2.5FP
		US-PATENT-3,908,118			US-PATENT-APPL-SN-684171			US-PATENT-CLASS-260-29.1R
N78-17396* #	c 38	NASA-CASE-NPO-13282			US-PATENT-CLASS-148-32			US-PATENT-CLASS-260-37EP
		US-PATENT-APPL-SN-401224			US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-427-427
		US-PATENT-CLASS-235-151.3			US-PATENT-CLASS-75-170			US-PATENT-4,077,921
		US-PATENT-CLASS-235-156	N78-18308* #	c 33	US-PATENT-4,055,447	N78-24333* #	c 26	NASA-CASE-MSC-19693-1
		US-PATENT-CLASS-250-563			NASA-CASE-FRC-10090-1			US-PATENT-APPL-SN-708771
		US-PATENT-CLASS-250-572			US-PATENT-APPL-SN-737974			US-PATENT-CLASS-148-12.7A
		US-PATENT-CLASS-356-165			US-PATENT-CLASS-307-265			US-PATENT-CLASS-148-125
		US-PATENT-CLASS-356-237			US-PATENT-CLASS-307-350			US-PATENT-4,077,813
		US-PATENT-3,909,602			US-PATENT-CLASS-307-360	N78-24365* #	c 28	NASA-CASE-LEW-12081-1
N78-17460* #	c 44	NASA-CASE-NPO-13579-1			US-PATENT-CLASS-328-150			US-PATENT-APPL-SN-676432
		US-PATENT-APPL-SN-598969			US-PATENT-4,055,777			US-PATENT-CLASS-250-492R
		US-PATENT-CLASS-126-263	N78-18355* #	c 34	NASA-CASE-LEW-12554-1			US-PATENT-CLASS-34-15
		US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-686449			US-PATENT-CLASS-423-648R
		US-PATENT-CLASS-165-2			US-PATENT-CLASS-427-34			US-PATENT-CLASS-62-100
		US-PATENT-CLASS-237-1A			US-PATENT-CLASS-427-405			US-PATENT-CLASS-62-48
		US-PATENT-CLASS-60-641			US-PATENT-CLASS-427-419A			US-PATENT-4,077,788
		US-PATENT-CLASS-62-4			US-PATENT-CLASS-427-423	N78-24387* #	c 31	NASA-CASE-NPO-14140-1
		US-PATENT-4,065,053			US-PATENT-CLASS-428-633			NASA-CASE-NPO-14381-1
N78-17675* #	c 54	NASA-CASE-ARC-11101-1			US-PATENT-CLASS-428-652			US-PATENT-APPL-SN-897832
		US-PATENT-APPL-SN-753976			US-PATENT-CLASS-428-667	N78-24391* #	c 32	NASA-CASE-NPO-13886-1
		US-PATENT-CLASS-2-2.1A			US-PATENT-4,055,705			US-PATENT-APPL-SN-730045
		US-PATENT-CLASS-36-119	N78-18390* #	c 35	NASA-CASE-MFS-23008-1			US-PATENT-CLASS-307-151
		US-PATENT-CLASS-36-92			US-PATENT-APPL-SN-665734			US-PATENT-CLASS-343-700MS
		US-PATENT-4,064,642			US-PATENT-CLASS-73-DIG.11			US-PATENT-CLASS-361-395
N78-17676* #	c 54	NASA-CASE-MFS-23311-1			US-PATENT-CLASS-73-28			US-PATENT-4,079,268
		US-PATENT-APPL-SN-708800			US-PATENT-CLASS-73-432PS	N78-24515* #	c 35	NASA-CASE-LAR-11201-1
		US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-73-432R			US-PATENT-APPL-SN-788705
		US-PATENT-CLASS-3-12.5			US-PATENT-4,055,089			US-PATENT-CLASS-416-144
		US-PATENT-CLASS-74-515E	N78-18391* #	c 35	NASA-CASE-NPO-13687-1			US-PATENT-CLASS-416-61
		US-PATENT-4,068,763			US-PATENT-APPL-SN-641803			US-PATENT-CLASS-73-456
N78-17677* #	c 54	NASA-CASE-MSC-13054			US-PATENT-CLASS-356-106S			US-PATENT-CLASS-73-756
		US-PATENT-APPL-SN-585217			US-PATENT-CLASS-356-110			US-PATENT-4,082,001
		US-PATENT-CLASS-2-161			US-PATENT-4,053,231	N78-24544* #	c 37	NASA-CASE-MSC-16000-1
		US-PATENT-3,490,074	N78-18395* #	c 35	NASA-CASE-NPO-13999-1			US-PATENT-APPL-SN-739915
N78-17678* #	c 54	NASA-CASE-XMS-04670			US-PATENT-APPL-SN-658596			US-PATENT-CLASS-29-156.8R
		US-PATENT-APPL-SN-535169	N78-18410* #	c 36	NASA-CASE-NPO-13801-1			US-PATENT-CLASS-29-23.5
		US-PATENT-CLASS-2-2.1			US-PATENT-APPL-SN-708796			US-PATENT-CLASS-29-244
		US-PATENT-3,488,771			US-PATENT-CLASS-330-4			US-PATENT-CLASS-29-252
N78-17679* #	c 54	NASA-CASE-XMS-04928			US-PATENT-CLASS-332-7.5			US-PATENT-4,078,290
		US-PATENT-APPL-SN-584914			US-PATENT-4,055,810	N78-24545* #	c 37	NASA-CASE-LEW-12785-1
		US-PATENT-CLASS-98-1			NASA-CASE-MSC-10954-1			US-PATENT-APPL-SN-739909
		US-PATENT-3,487,765			US-PATENT-APPL-SN-529884			US-PATENT-CLASS-60-39.28R
N78-17680* #	c 54	NASA-CASE-XMS-09653			US-PATENT-CLASS-2-2.1			US-PATENT-4,078,378
		US-PATENT-APPL-SN-538863			US-PATENT-3,514,785	N78-24608* #	c 44	NASA-CASE-GSC-12030-1
		US-PATENT-CLASS-2-6			NASA-CASE-GSC-12010-1			US-PATENT-APPL-SN-710035
		US-PATENT-3,359,568			US-PATENT-APPL-SN-680958			US-PATENT-CLASS-308-10
N78-17691* #	c 60	NASA-CASE-GSC-12044-1			US-PATENT-CLASS-250-213VT			US-PATENT-CLASS-310-153
		US-PATENT-APPL-SN-631341			US-PATENT-CLASS-313-442			US-PATENT-CLASS-310-154
		US-PATENT-CLASS-340-347DD			US-PATENT-CLASS-313-94			US-PATENT-CLASS-310-178
		US-PATENT-4,069,478			US-PATENT-4,070,574			US-PATENT-CLASS-310-269
N78-17865* #	c 74	NASA-CASE-MSC-12618-1	N78-19302* #	c 27	NASA-CASE-NPO-13690-1			US-PATENT-4,077,678
		US-PATENT-APPL-SN-651007			US-PATENT-APPL-SN-633876	N78-24609* #	c 44	NASA-CASE-GSC-12022-2
		US-PATENT-CLASS-350-159			US-PATENT-CLASS-106-39.5			US-PATENT-APPL-SN-693074
		US-PATENT-CLASS-358-225			US-PATENT-CLASS-106-65			US-PATENT-CLASS-136-89SG
		US-PATENT-CLASS-358-41			US-PATENT-CLASS-106-73.5			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-358-55			US-PATENT-4,072,532			US-PATENT-CLASS-29-572
N78-17866* #	c 74	US-PATENT-4,067,043	N78-19465* #	c 35	NASA-CASE-ARC-10896-1			US-PATENT-CLASS-357-30
		NASA-CASE-LAR-11711-1			US-PATENT-APPL-SN-615030			US-PATENT-CLASS-357-59
		US-PATENT-APPL-SN-674195			US-PATENT-CLASS-73-23			US-PATENT-CLASS-427-113
		US-PATENT-CLASS-250-201			US-PATENT-4,055,072			US-PATENT-CLASS-427-248J
		US-PATENT-CLASS-350-204	N78-19466* #	c 35	NASA-CASE-ARC-10820-1			US-PATENT-CLASS-427-249
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-620675			US-PATENT-CLASS-427-86
		US-PATENT-4,063,814			US-PATENT-CLASS-119-51.11			US-PATENT-4,077,818
N78-17867* #	c 74	NASA-CASE-NPO-13759-1			US-PATENT-CLASS-119-72.5	N78-24950* #	c 76	NASA-CASE-MFS-23315-1
		US-PATENT-APPL-SN-718266			US-PATENT-CLASS-137-624.11			US-PATENT-APPL-SN-724874
		US-PATENT-CLASS-250-344			US-PATENT-4,055,147			US-PATENT-CLASS-250-277CH
		US-PATENT-CLASS-356-204	N78-19599* #	c 44	NASA-CASE-LEW-12159-1			US-PATENT-CLASS-250-280
		US-PATENT-CLASS-356-246			US-PATENT-APPL-SN-643041			US-PATENT-4,078,175
		US-PATENT-4,067,653			US-PATENT-CLASS-126-270	N78-25089* #	c 07	NASA-CASE-LEW-12452-1
N78-18066* #	c 07	NASA-CASE-LEW-12389-2			US-PATENT-CLASS-427-160			US-PATENT-APPL-SN-695513
		US-PATENT-APPL-SN-628221			US-PATENT-CLASS-428-652			US-PATENT-CLASS-60-226R

		US-PATENT-CLASS-60-39.52 US-PATENT-4,083,181				US-PATENT-CLASS-320-15 US-PATENT-CLASS-320-32				US-PATENT-CLASS-356-167 US-PATENT-4,088,408
N78-25090* #	c 07	NASA-CASE-LEW-11855-1 US-PATENT-APPL-SN-672222 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-25 US-PATENT-4,084,825				US-PATENT-CLASS-320-39 US-PATENT-CLASS-320-9 US-PATENT-4,084,124	N78-27913* #	c 75	NASA-CASE-MFS-22906-1 US-PATENT-APPL-SN-684807 US-PATENT-CLASS-29-81C US-PATENT-CLASS-313-231.3 US-PATENT-CLASS-315-111.2 US-PATENT-4,088,926	
N78-25119* #	c 15	NASA-CASE-MFS-23564-1 US-PATENT-APPL-SN-739908 US-PATENT-CLASS-244-161 US-PATENT-CLASS-244-167 US-PATENT-4,083,520	N78-27121* #	c 07	NASA-CASE-LAR-11919-1 US-PATENT-APPL-SN-672221 US-PATENT-CLASS-239-265.25 US-PATENT-CLASS-239-265.33 US-PATENT-CLASS-60-230 US-PATENT-4,088,270		N78-28411* #	c 35	NASA-CASE-KSC-11035-1 US-PATENT-APPL-SN-780874 US-PATENT-CLASS-324-130 US-PATENT-CLASS-324-32 US-PATENT-CLASS-324-74 US-PATENT-4,088,951	
N78-25148* #	c 25	NASA-CASE-LEW-12465-1 US-PATENT-APPL-SN-692413 US-PATENT-CLASS-250-423P US-PATENT-CLASS-250-528 US-PATENT-CLASS-250-531 US-PATENT-CLASS-55-100 US-PATENT-CLASS-55-101 US-PATENT-CLASS-55-2 US-PATENT-4,085,332	N78-27176* #	c 20	NASA-CASE-MFS-23642-2 US-PATENT-APPL-SN-923758 US-PATENT-CLASS-ARC-11043-1 US-PATENT-APPL-SN-753964 US-PATENT-CLASS-260-33.6EP US-PATENT-CLASS-260-33.6PQ US-PATENT-CLASS-260-33.8EP US-PATENT-CLASS-260-33.8UA US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-42.43 US-PATENT-CLASS-260-45.7R US-PATENT-CLASS-260-45.75W US-PATENT-CLASS-260-45.85N US-PATENT-CLASS-260-45.9R US-PATENT-CLASS-427-386 US-PATENT-CLASS-427-388A US-PATENT-CLASS-428-313 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-921 US-PATENT-4,088,806	N78-28594* #	c 44	NASA-CASE-NPO-13821-1 US-PATENT-APPL-SN-688852 US-PATENT-CLASS-343-113R US-PATENT-CLASS-343-119 US-PATENT-CLASS-343-16M US-PATENT-4,088,999		
N78-25256* #	c 31	NASA-CASE-NPO-13839-1 US-PATENT-APPL-SN-712981 US-PATENT-CLASS-250-332 US-PATENT-CLASS-313-22 US-PATENT-CLASS-62-514R US-PATENT-4,077,231	N78-27180* #	c 24	US-PATENT-CLASS-260-42.43 US-PATENT-CLASS-260-45.7R US-PATENT-CLASS-260-45.75W US-PATENT-CLASS-260-45.85N US-PATENT-CLASS-260-45.9R US-PATENT-CLASS-427-386 US-PATENT-CLASS-427-388A US-PATENT-CLASS-428-313 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-921 US-PATENT-4,088,806	N78-28913* #	c 73	NASA-CASE-NPO-13114-2 US-PATENT-APPL-SN-294738 US-PATENT-APPL-SN-634214 US-PATENT-CLASS-176-22 US-PATENT-CLASS-176-33 US-PATENT-CLASS-176-39 US-PATENT-4,085,004		
N78-25319* #	c 33	NASA-CASE-NPO-13909-1 US-PATENT-APPL-SN-744477 US-PATENT-CLASS-324-57DE US-PATENT-CLASS-324-57SS US-PATENT-CLASS-324-58A US-PATENT-4,084,132	N78-27184* #	c 24	NASA-CASE-ARC-11040-2 US-PATENT-APPL-SN-920878 US-PATENT-CLASS-LEW-10518-3 US-PATENT-APPL-SN-394207 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492B US-PATENT-4,088,532	N78-29421* #	c 35	NASA-CASE-NPO-11954-1 US-PATENT-APPL-SN-229287 US-PATENT-CLASS-179-100.2CH US-PATENT-CLASS-340-174.1M US-PATENT-CLASS-340-174YC US-PATENT-CLASS-350-151 US-PATENT-3,775,570		
N78-25350* #	c 34	NASA-CASE-MSC-19568-1 US-PATENT-APPL-SN-681000 US-PATENT-CLASS-428-913 US-PATENT-CLASS-428-93 US-PATENT-CLASS-428-94 US-PATENT-CLASS-428-95 US-PATENT-CLASS-428-96 US-PATENT-CLASS-428-97 US-PATENT-CLASS-49-DIG.1 US-PATENT-CLASS-49-479 US-PATENT-CLASS-49-485 US-PATENT-4,078,110	N78-27226* #	c 25	US-PATENT-CLASS-357-91 US-PATENT-4,087,902 US-PATENT-CLASS-LEW-11877-1 US-PATENT-APPL-SN-708660 US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-328 US-PATENT-CLASS-431-7 US-PATENT-CLASS-60-39.65 US-PATENT-CLASS-60-39.69R US-PATENT-4,087,962	N78-31129* #	c 09	NASA-CASE-MSC-19706-1 US-PATENT-APPL-SN-767911 US-PATENT-CLASS-239-265.25 US-PATENT-CLASS-73-147 US-PATENT-4,091,665		
N78-25351* #	c 34	NASA-CASE-LEW-12718-1 US-PATENT-APPL-SN-779428 US-PATENT-CLASS-137-484.2 US-PATENT-CLASS-137-501 US-PATENT-CLASS-137-505.16 US-PATENT-4,084,612	N78-27326* #	c 33	NASA-CASE-MFS-23312-1 US-PATENT-APPL-SN-699012 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-578 US-PATENT-CLASS-357-91 US-PATENT-4,087,902	N78-31232* #	c 27	NASA-CASE-ARC-11008-1 US-PATENT-APPL-SN-708951 US-PATENT-CLASS-260-2.5N US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-63N US-PATENT-CLASS-260-78.41 US-PATENT-4,092,274		
N78-25391* #	c 35	NASA-CASE-NPO-13948-1 US-PATENT-APPL-SN-752748 US-PATENT-CLASS-204-195W US-PATENT-CLASS-73-336.5 US-PATENT-4,083,765	N78-27357* #	c 34	US-PATENT-CLASS-357-91 US-PATENT-4,087,902 US-PATENT-CLASS-LEW-11877-1 US-PATENT-APPL-SN-708660 US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-328 US-PATENT-CLASS-431-7 US-PATENT-CLASS-60-39.65 US-PATENT-CLASS-60-39.69R US-PATENT-4,087,962	N78-31233* #	c 27	NASA-CASE-ARC-11057-1 US-PATENT-APPL-SN-807762 US-PATENT-CLASS-350-165 US-PATENT-CLASS-350-175NG US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-40 US-PATENT-CLASS-427-41 US-PATENT-CLASS-428-411 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-422 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-515 US-PATENT-CLASS-428-523 US-PATENT-CLASS-428-538 US-PATENT-4,091,166		
N78-25426* #	c 37	NASA-CASE-MSC-12731-1 US-PATENT-APPL-SN-690816 US-PATENT-CLASS-137-505.25 US-PATENT-CLASS-137-625.3 US-PATENT-CLASS-137-625.38 US-PATENT-4,083,380	N78-27384* #	c 35	NASA-CASE-LAR-11973-1 US-PATENT-APPL-SN-821681 US-PATENT-CLASS-73-170A US-PATENT-CLASS-73-425.4R US-PATENT-CLASS-73-61R US-PATENT-4,089,209	N78-31255* #	c 28	NASA-CASE-NPO-14103-1 US-PATENT-APPL-SN-797210 US-PATENT-CLASS-149-105 US-PATENT-CLASS-149-111 US-PATENT-CLASS-149-19.4 US-PATENT-CLASS-149-19.8 US-PATENT-CLASS-149-88 US-PATENT-CLASS-149-92 US-PATENT-CLASS-149-93 US-PATENT-4,092,188		
N78-25527* #	c 44	NASA-CASE-LEW-12552-1 US-PATENT-APPL-SN-770869 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-75 US-PATENT-4,082,569	N78-27402* #	c 36	NASA-CASE-NPO-13945-1 US-PATENT-APPL-SN-704180 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5P US-PATENT-CLASS-331-94.5PE US-PATENT-4,088,965	N78-31321* #	c 32	NASA-CASE-NPO-14022-1 US-PATENT-APPL-SN-780728 US-PATENT-CLASS-343-781CA US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-4,092,648		
N78-25528* #	c 44	NASA-CASE-LEW-12185-1 US-PATENT-APPL-SN-746269 US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-628 US-PATENT-4,083,097	N78-27424* #	c 37	NASA-CASE-LAR-11889-2 US-PATENT-APPL-SN-662182 US-PATENT-APPL-SN-807703 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,088,018	N78-31426* #	c 37	NASA-CASE-GSC-11883-2 US-PATENT-APPL-SN-596787 US-PATENT-APPL-SN-747675 US-PATENT-CLASS-60-527 US-PATENT-CLASS-74-100R US-PATENT-4,010,455 US-PATENT-4,092,874		
N78-25529* #	c 44	NASA-CASE-LEW-12541-1 US-PATENT-APPL-SN-706637 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-156-633 US-PATENT-CLASS-29-572 US-PATENT-4,084,985	N78-27425* #	c 37	NASA-CASE-ARC-10981-1 US-PATENT-APPL-SN-738218 US-PATENT-CLASS-248-178 US-PATENT-CLASS-248-186 US-PATENT-4,088,291	N78-31525* #	c 44	NASA-CASE-NPO-13581-2 US-PATENT-APPL-SN-590975 US-PATENT-APPL-SN-811815 US-PATENT-CLASS-126-271 US-PATENT-CLASS-237-1A US-PATENT-4,091,800		
N78-25530* #	c 44	NASA-CASE-LEW-12649-1 US-PATENT-APPL-SN-720521 US-PATENT-CLASS-427-385B US-PATENT-CLASS-427-385C US-PATENT-CLASS-429-254 US-PATENT-4,085,241	N78-27733* #	c 51	NASA-CASE-ARC-10917-1 US-PATENT-APPL-SN-672223 US-PATENT-CLASS-119-29 US-PATENT-4,088,094	N78-31526* #	c 44	NASA-CASE-NPO-13813-1 NASA-CASE-NPO-13914-1 US-PATENT-APPL-SN-765139 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-299		
N78-25531* #	c 44	NASA-CASE-MFS-23270-1 US-PATENT-APPL-SN-744573 US-PATENT-CLASS-320-13	N78-27750* #	c 52	NASA-CASE-MSC-16433-1 US-PATENT-APPL-SN-910992					
			N78-27904* #	c 74	NASA-CASE-LAR-11869-1 US-PATENT-APPL-SN-740155 US-PATENT-CLASS-356-120					

N78-31527* # c 44	US-PATENT-4,091,798 NASA-CASE-NPO-13937-1 US-PATENT-APPL-SN-718137 US-PATENT-CLASS-201-17 US-PATENT-CLASS-44-1R US-PATENT-CLASS-44-2 US-PATENT-4,081,250	N78-32338* # c 33	NASA-CASE-GSC-12137-1 US-PATENT-APPL-SN-808510 US-PATENT-CLASS-329-124 US-PATENT-CLASS-331-12 US-PATENT-CLASS-331-4 US-PATENT-CLASS-331-64 US-PATENT-4,092,806	N78-33228* # c 27	US-PATENT-CLASS-29-463 US-PATENT-CLASS-416-214A US-PATENT-CLASS-416-244A US-PATENT-CLASS-74-572 US-PATENT-4,097,194
N78-31735* # c 54	NASA-CASE-ARC-11058-1 US-PATENT-APPL-SN-753965 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,464	N78-32339* # c 33	NASA-CASE-GSC-12145-1 US-PATENT-APPL-SN-769149 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-230 US-PATENT-CLASS-328-145 US-PATENT-4,091,329	N78-33526* # c 44	NASA-CASE-NPO-08835-1 US-PATENT-APPL-SN-588721 US-PATENT-CLASS-260-28.5 US-PATENT-3,527,724
N78-31736* # c 54	NASA-CASE-ARC-11100-1 US-PATENT-APPL-SN-780569 US-PATENT-CLASS-2-2.1A US-PATENT-4,091,465	N78-32340* # c 33	NASA-CASE-GSC-12146-1 US-PATENT-APPL-SN-782480 US-PATENT-CLASS-325-159 US-PATENT-CLASS-325-187 US-PATENT-CLASS-333-17R US-PATENT-CLASS-333-81R US-PATENT-4,092,617	N78-33913* # c 74	NASA-CASE-NPO-10233-1 US-PATENT-APPL-SN-716885 US-PATENT-CLASS-250-218 US-PATENT-CLASS-250-227 US-PATENT-CLASS-250-239 US-PATENT-CLASS-356-208 US-PATENT-3,573,470
N78-32086* # c 05	NASA-CASE-LAR-11932-1 US-PATENT-APPL-SN-718244 US-PATENT-CLASS-244-218 US-PATENT-CLASS-244-45A US-PATENT-CLASS-244-46 US-PATENT-4,093,156	N78-32341* # c 33	NASA-CASE-LEW-12791-1 US-PATENT-APPL-SN-801432 US-PATENT-CLASS-363-101 US-PATENT-CLASS-363-16 US-PATENT-CLASS-363-60 US-PATENT-4,092,712	N79-10057* # c 07	NASA-CASE-LEW-12232-1 US-PATENT-APPL-SN-776029 US-PATENT-CLASS-415-115 US-PATENT-CLASS-415-116 US-PATENT-CLASS-60-39.14 US-PATENT-4,117,669
N78-32168* # c 15	NASA-CASE-LAR-12264-1 US-PATENT-APPL-SN-943087	N78-32395* # c 35	NASA-CASE-ARC-11036-1 US-PATENT-APPL-SN-740457 US-PATENT-CLASS-33-366 US-PATENT-4,094,073	N79-10162* # c 25	NASA-CASE-ARC-11053-1 US-PATENT-APPL-SN-814378 US-PATENT-CLASS-23-252R US-PATENT-CLASS-423-581 US-PATENT-4,101,644
N78-32179* # c 20	NASA-CASE-NPO-11458A US-PATENT-APPL-SN-48621 US-PATENT-CLASS-102-103 US-PATENT-CLASS-149-19.4 US-PATENT-CLASS-149-42 US-PATENT-CLASS-149-43 US-PATENT-CLASS-149-44 US-PATENT-CLASS-149-76 US-PATENT-CLASS-149-83 US-PATENT-CLASS-149-85 US-PATENT-4,116,131	N78-32396* # c 35	NASA-CASE-MFS-23363-1 US-PATENT-APPL-SN-730046 US-PATENT-CLASS-324-173 US-PATENT-CLASS-324-207 US-PATENT-4,093,917	N79-10163* # c 25	NASA-CASE-NPO-13274-1 US-PATENT-APPL-SN-406296 US-PATENT-CLASS-204-180S US-PATENT-CLASS-204-299 US-PATENT-3,932,262
N78-32229* # c 26	NASA-CASE-ARC-10992-1 US-PATENT-APPL-SN-760810 US-PATENT-CLASS-204-164 US-PATENT-CLASS-204-175 US-PATENT-CLASS-423-582 US-PATENT-CLASS-423-583 US-PATENT-4,094,758	N78-32397* # c 35	NASA-CASE-LAR-11617-2 US-PATENT-APPL-SN-547072 US-PATENT-APPL-SN-668771 US-PATENT-CLASS-324-249 US-PATENT-4,088,954	N79-10262* # c 32	NASA-CASE-NPO-13941-1 US-PATENT-APPL-SN-774384 US-PATENT-CLASS-307-233R US-PATENT-CLASS-324-77B US-PATENT-CLASS-324-77C US-PATENT-4,118,666
N78-32256* # c 27	NASA-CASE-MS-14903-1 US-PATENT-APPL-SN-706424 US-PATENT-CLASS-260-2P US-PATENT-CLASS-260-551P US-PATENT-CLASS-260-606-5P US-PATENT-CLASS-260-959 US-PATENT-CLASS-526-13 US-PATENT-CLASS-526-23 US-PATENT-CLASS-526-27 US-PATENT-CLASS-526-275 US-PATENT-CLASS-526-276 US-PATENT-CLASS-526-278 US-PATENT-CLASS-526-49 US-PATENT-CLASS-526-50 US-PATENT-CLASS-544-195 US-PATENT-4,092,466	N78-32447* # c 38	NASA-CASE-MFS-23114-1 US-PATENT-APPL-SN-686331 US-PATENT-CLASS-350-3.5 US-PATENT-CLASS-356-72 US-PATENT-CLASS-356-73 US-PATENT-CLASS-73-603 US-PATENT-4,093,382	N79-10263* # c 32	NASA-CASE-MS-12743-1 US-PATENT-APPL-SN-765167 US-PATENT-CLASS-325-41 US-PATENT-CLASS-340-146.1AX US-PATENT-CLASS-340-146.1E US-PATENT-4,100,531
N78-32260* # c 27	NASA-CASE-ARC-11051-1 US-PATENT-APPL-SN-736910 US-PATENT-CLASS-106-48 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-215 US-PATENT-CLASS-427-376A US-PATENT-CLASS-427-376B US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-428-312 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-331 US-PATENT-CLASS-428-341 US-PATENT-CLASS-428-406 US-PATENT-CLASS-428-427 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-920 US-PATENT-CLASS-65-30R US-PATENT-CLASS-65-60D US-PATENT-4,093,771	N78-32539* # c 44	NASA-CASE-LAR-11208-1 US-PATENT-APPL-SN-710036 US-PATENT-CLASS-417-88 US-PATENT-CLASS-60-39.07 US-PATENT-CLASS-60-39.14 US-PATENT-CLASS-60-39.33 US-PATENT-CLASS-98-1.5 US-PATENT-4,091,613	N79-10264* # c 32	NASA-CASE-MFS-22234-1 US-PATENT-APPL-SN-730778 US-PATENT-CLASS-343-6R US-PATENT-CLASS-343-9 US-PATENT-4,118,701
N78-32262* # c 27	NASA-CASE-ARC-11051-1 US-PATENT-APPL-SN-736910 US-PATENT-CLASS-106-48 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-215 US-PATENT-CLASS-427-376A US-PATENT-CLASS-427-376B US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-428-312 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-331 US-PATENT-CLASS-428-341 US-PATENT-CLASS-428-406 US-PATENT-CLASS-428-427 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-920 US-PATENT-CLASS-65-30R US-PATENT-CLASS-65-60D US-PATENT-4,093,771	N78-32542* # c 44	NASA-CASE-KSC-11034-1 US-PATENT-APPL-SN-782481 US-PATENT-CLASS-60-641 US-PATENT-CLASS-60-671 US-PATENT-4,087,975	N79-10337* # c 33	NASA-CASE-KSC-11018-1 US-PATENT-APPL-SN-782693 US-PATENT-CLASS-324-133 US-PATENT-CLASS-324-72 US-PATENT-CLASS-324-96 US-PATENT-CLASS-324-96 US-PATENT-4,100,487
N78-32261* # c 27	NASA-CASE-LAR-11828-1 US-PATENT-APPL-SN-448321 US-PATENT-APPL-SN-562992 US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-49 US-PATENT-CLASS-260-63N US-PATENT-CLASS-260-63R US-PATENT-CLASS-260-65 US-PATENT-CLASS-260-78TF US-PATENT-4,094,862	N78-32720* # c 54	NASA-CASE-MS-14805-1 US-PATENT-APPL-SN-688856 US-PATENT-CLASS-340-213R US-PATENT-CLASS-340-262 US-PATENT-CLASS-340-279 US-PATENT-CLASS-340-285 US-PATENT-CLASS-340-309.1 US-PATENT-4,092,633	N79-10338* # c 33	NASA-CASE-GSC-12228-1 US-PATENT-APPL-SN-858764 US-PATENT-CLASS-324-57R US-PATENT-CLASS-324-83D US-PATENT-CLASS-324-85 US-PATENT-CLASS-328-163 US-PATENT-4,118,665
N78-32262* # c 27	NASA-CASE-MS-14331-3 US-PATENT-APPL-SN-657998 US-PATENT-CLASS-264-130 US-PATENT-CLASS-264-184 US-PATENT-CLASS-264-211 US-PATENT-CLASS-264-236 US-PATENT-4,094,943	N78-32721* # c 54	NASA-CASE-ARC-11059-1 US-PATENT-APPL-SN-753978 US-PATENT-CLASS-128-142.7 US-PATENT-CLASS-62-259 US-PATENT-4,095,593	N79-10339* # c 35	NASA-CASE-LEW-12013-1 US-PATENT-APPL-SN-768795 US-PATENT-CLASS-301-82 US-PATENT-CLASS-315-3.5 US-PATENT-CLASS-315-3.6 US-PATENT-CLASS-330-43 US-PATENT-4,118,671
		N78-32848* # c 73	NASA-CASE-GSC-12083-1 US-PATENT-APPL-SN-643897 US-PATENT-CLASS-350-170 US-PATENT-CLASS-350-173 US-PATENT-CLASS-350-174 US-PATENT-CLASS-350-286 US-PATENT-CLASS-350-320 US-PATENT-4,093,354	N79-10389* # c 35	NASA-CASE-MFS-23461-1 US-PATENT-APPL-SN-694406 US-PATENT-CLASS-250-475 US-PATENT-CLASS-252-301.1R US-PATENT-CLASS-252-301.16 US-PATENT-CLASS-96-27R US-PATENT-CLASS-96-60R US-PATENT-4,101,780
		N78-32854* # c 74	NASA-CASE-ARC-11039-1 US-PATENT-APPL-SN-750655 US-PATENT-CLASS-351-166 US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-302 US-PATENT-CLASS-427-322 US-PATENT-CLASS-427-38 US-PATENT-CLASS-427-387 US-PATENT-CLASS-427-41 US-PATENT-CLASS-427-44 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-447 US-PATENT-4,096,315	N79-10390* # c 35	NASA-CASE-LAR-12260-1 US-PATENT-CLASS-73-579 US-PATENT-CLASS-73-589 US-PATENT-4,117,731
		N78-33101* # c 07	NASA-CASE-LEW-12496-1 US-PATENT-APPL-SN-668971	N79-10391* # c 35	NASA-CASE-NPO-13862-1 US-PATENT-APPL-SN-744577 US-PATENT-CLASS-324-77K US-PATENT-CLASS-343-17.2PC US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-5W US-PATENT-4,101,891
				N79-10418* # c 37	NASA-CASE-LEW-12569-1 US-PATENT-APPL-SN-792069

			US-PATENT-CLASS-308-DIG.1				US-PATENT-4,103,619				US-PATENT-CLASS-350-288
			US-PATENT-CLASS-308-121				NASA-CASE-LAR-12147-1				US-PATENT-CLASS-350-299
			US-PATENT-CLASS-308-160				US-PATENT-APPL-SN-733825				US-PATENT-4,122,833
			US-PATENT-CLASS-308-163				US-PATENT-CLASS-73-159				NASA-CASE-LEW-12552-2
			US-PATENT-CLASS-308-172				US-PATENT-CLASS-73-95				US-PATENT-APPL-SN-844348
			US-PATENT-CLASS-308-5R				US-PATENT-4,103,550				US-PATENT-CLASS-29-572
			US-PATENT-CLASS-308-9				NASA-CASE-MS-14939-1				US-PATENT-CLASS-427-123
			US-PATENT-4,099,799				US-PATENT-APPL-SN-765165				US-PATENT-CLASS-427-126
N79-10419* #	c 37		NASA-CASE-FRC-10111-1				US-PATENT-CLASS-343-844				US-PATENT-CLASS-427-261
			US-PATENT-APPL-SN-713027				US-PATENT-CLASS-343-854				US-PATENT-CLASS-427-343
			US-PATENT-CLASS-30-90.6				US-PATENT-4,119,972				US-PATENT-CLASS-427-398A
			US-PATENT-CLASS-81-9.5R				NASA-CASE-GSC-12150-1				US-PATENT-CLASS-427-399
			US-PATENT-4,117,749				US-PATENT-APPL-SN-736286				US-PATENT-CLASS-427-75
N79-10420* #	c 37		NASA-CASE-NPO-14014-1				US-PATENT-CLASS-325-4				US-PATENT-CLASS-427-84
			US-PATENT-APPL-SN-826204				US-PATENT-CLASS-325-67				US-PATENT-4,122,214
			US-PATENT-CLASS-188-1C				US-PATENT-CLASS-343-17.7				NASA-CASE-MFS-23513-1
			US-PATENT-CLASS-256-1				US-PATENT-4,119,964				US-PATENT-APPL-SN-755323
			US-PATENT-CLASS-256-13.1				NASA-CASE-MS-16461-1				US-PATENT-CLASS-356-124
			US-PATENT-4,118,014				US-PATENT-APPL-SN-858765				US-PATENT-CLASS-356-210
N79-10421* #	c 37		NASA-CASE-MFS-23620-1				US-PATENT-CLASS-307-232				US-PATENT-4,102,580
			US-PATENT-APPL-SN-799023				US-PATENT-CLASS-328-133				NASA-CASE-NPO-13918-1
			US-PATENT-CLASS-219-124.2.2				US-PATENT-CLASS-331-1A				US-PATENT-APPL-SN-706073
			US-PATENT-CLASS-219-124.32				US-PATENT-CLASS-331-14				US-PATENT-CLASS-156-DIG.64
			US-PATENT-CLASS-219-125.1				US-PATENT-CLASS-331-23				US-PATENT-CLASS-156-DIG.65
			US-PATENT-CLASS-228-8				US-PATENT-CLASS-331-27				US-PATENT-CLASS-156-DIG.88
			US-PATENT-4,118,620				US-PATENT-4,119,926				US-PATENT-CLASS-156-608
N79-10422* #	c 37		NASA-CASE-MFS-23051-1				NASA-CASE-NPO-13064-1				US-PATENT-CLASS-156-617SP
			US-PATENT-APPL-SN-632111				US-PATENT-APPL-SN-297436				US-PATENT-4,121,965
			US-PATENT-CLASS-15-230.16				US-PATENT-CLASS-357-22				NASA-CASE-FRC-10092-1
			US-PATENT-CLASS-15-230.17				US-PATENT-3,860,946				US-PATENT-APPL-SN-831634
			US-PATENT-CLASS-29-125				NASA-CASE-KSC-11031-1				US-PATENT-CLASS-244-48
			US-PATENT-CLASS-428-133				US-PATENT-APPL-SN-782482				US-PATENT-CLASS-244-82
			US-PATENT-CLASS-74-572				US-PATENT-CLASS-324-102				US-PATENT-CLASS-244-90R
			US-PATENT-4,098,142				US-PATENT-CLASS-324-113				US-PATENT-4,124,180
N79-10513* #	c 44		NASA-CASE-NPO-13732-1				US-PATENT-CLASS-324-133				NASA-CASE-MS-12619-2
			US-PATENT-APPL-SN-765138				US-PATENT-4,105,966				US-PATENT-APPL-SN-555750
			US-PATENT-CLASS-429-13				NASA-CASE-MS-16043-1				US-PATENT-APPL-SN-786913
			US-PATENT-CLASS-429-41				US-PATENT-APPL-SN-750792				US-PATENT-CLASS-244-121
			US-PATENT-CLASS-429-42				US-PATENT-CLASS-137-614.06				US-PATENT-CLASS-244-158
			US-PATENT-4,100,331				US-PATENT-CLASS-137-637.05				US-PATENT-CLASS-244-160
N79-10693* #	c 51		NASA-CASE-MS-16098-1				US-PATENT-CLASS-251-149.9				US-PATENT-CLASS-428-189
			US-PATENT-APPL-SN-792068				US-PATENT-CLASS-285-326				US-PATENT-CLASS-428-212
			US-PATENT-CLASS-210-23F				US-PATENT-CLASS-285-359				US-PATENT-CLASS-428-280
			US-PATENT-CLASS-210-433M				US-PATENT-4,103,712				US-PATENT-CLASS-428-285
			US-PATENT-CLASS-210-96M				NASA-CASE-LEW-12793-1				US-PATENT-CLASS-428-286
			US-PATENT-4,118,315				US-PATENT-APPL-SN-745766				US-PATENT-CLASS-428-332
N79-10694* #	c 51		NASA-CASE-GSC-12173-1				US-PATENT-CLASS-60.39.08				US-PATENT-CLASS-428-447
			US-PATENT-APPL-SN-806440				US-PATENT-CLASS-60.39.28R				US-PATENT-CLASS-428-450
			US-PATENT-CLASS-165-2				US-PATENT-CLASS-60-39.66				US-PATENT-CLASS-428-77
			US-PATENT-CLASS-165-30				US-PATENT-4,104,873				US-PATENT-CLASS-428-920
			US-PATENT-CLASS-195-1.8				NASA-CASE-MFS-23447-1				US-PATENT-4,124,732
			US-PATENT-CLASS-219-299				US-PATENT-APPL-SN-736909				NASA-CASE-GSC-12190-1
			US-PATENT-CLASS-219-302				US-PATENT-CLASS-308-194				US-PATENT-APPL-SN-817413
			US-PATENT-CLASS-62-514R				US-PATENT-CLASS-308-72				US-PATENT-CLASS-357-22
			US-PATENT-CLASS-62-78				US-PATENT-4,105,261				US-PATENT-CLASS-357-23
			US-PATENT-4,117,881				NASA-CASE-NPO-13828-1				US-PATENT-CLASS-357-41
N79-10724* #	c 52		NASA-CASE-ARC-10985-1				US-PATENT-APPL-SN-672636				US-PATENT-CLASS-357-55
			US-PATENT-APPL-SN-769148				US-PATENT-CLASS-123-148DC				US-PATENT-4,119,996
			US-PATENT-CLASS-128-2.05R				US-PATENT-CLASS-123-148E				NASA-CASE-MS-12662-1
			US-PATENT-CLASS-358-111				US-PATENT-CLASS-315-209CD				US-PATENT-APPL-SN-540779
			US-PATENT-CLASS-358-96				US-PATENT-CLASS-315-209SC				US-PATENT-CLASS-428-109
			US-PATENT-CLASS-364-417				US-PATENT-CLASS-315-241R				US-PATENT-CLASS-428-247
			US-PATENT-4,101,961				US-PATENT-4,122,816				US-PATENT-CLASS-428-258
N79-10969* #	c 89		NASA-CASE-MFS-23675-1				NASA-CASE-LEW-12819-1				US-PATENT-CLASS-428-259
			US-PATENT-APPL-SN-820498				US-PATENT-APPL-SN-803823				US-PATENT-4,107,363
			US-PATENT-CLASS-350-294				US-PATENT-CLASS-136-89CC				NASA-CASE-LAR-11729-1
			US-PATENT-CLASS-350-55				US-PATENT-CLASS-136-89SJ				US-PATENT-APPL-SN-856461
			US-PATENT-4,101,195				US-PATENT-CLASS-357-15				US-PATENT-CLASS-73-189
N79-11108* #	c 18		NASA-CASE-MFS-23579-1				US-PATENT-CLASS-357-16				US-PATENT-CLASS-73-194VS
			US-PATENT-APPL-SN-829316				US-PATENT-CLASS-357-30				US-PATENT-4,122,712
			US-PATENT-CLASS-228-13				US-PATENT-CLASS-357-65				NASA-CASE-NPO-14100-1
			US-PATENT-CLASS-228-15.1				US-PATENT-CLASS-357-67				US-PATENT-APPL-SN-861391
			US-PATENT-CLASS-228-173				US-PATENT-4,104,084				US-PATENT-CLASS-324-20R
			US-PATENT-CLASS-244-159				NASA-CASE-LEW-12775-1				US-PATENT-CLASS-324-22
			US-PATENT-4,122,991				US-PATENT-APPL-SN-799026				US-PATENT-4,122,383
N79-11151* #	c 25		NASA-CASE-NPO-13958-1				US-PATENT-CLASS-136-89				NASA-CASE-MS-16258-1
			US-PATENT-APPL-SN-745384				US-PATENT-CLASS-148-188				US-PATENT-APPL-SN-853705
			US-PATENT-CLASS-126-91A				US-PATENT-CLASS-29-572				US-PATENT-CLASS-210-50
			US-PATENT-CLASS-431-10				US-PATENT-CLASS-427-75				US-PATENT-CLASS-210-60
			US-PATENT-CLASS-431-208				US-PATENT-4,104,091				US-PATENT-CLASS-210-63R
			US-PATENT-CLASS-432-223				NASA-CASE-MFS-23518-1				US-PATENT-CLASS-423-242
			US-PATENT-CLASS-432-29				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-55-73
			US-PATENT-4,104,018				US-PATENT-CLASS-204-32				US-PATENT-4,123,355
N79-11152* #	c 25		NASA-CASE-NPO-13904-1				US-PATENT-CLASS-204-33				NASA-CASE-NPO-13913-1
			US-PATENT-APPL-SN-730468				US-PATENT-CLASS-204-37R				US-PATENT-APPL-SN-687251
			US-PATENT-CLASS-208-10				US-PATENT-CLASS-204-38B				US-PATENT-CLASS-128-2R
			US-PATENT-CLASS-208-8				US-PATENT-4,104,134				US-PATENT-CLASS-364-120
			US-PATENT-CLASS-302-66				NASA-CASE-NPO-14126-1				US-PATENT-CLASS-364-300
			US-PATENT-CLASS-44-51				US-PATENT-APPL-SN-838336				US-PATENT-CLASS-364-415
			US-PATENT-4,121,995				US-PATENT-CLASS-204-157.1R				US-PATENT-CLASS-364-900
N79-11215* #	c 27		NASA-CASE-ARC-11170-1				US-PATENT-CLASS-250-527				US-PATENT-4,122,516
			US-PATENT-APPL-SN-956161				US-PATENT-4,105,517				NASA-CASE-KSC-11010-1
N79-11231* #	c 28		NASA-CASE-NPO-13858-1				NASA-CASE-NPO-13817-1				US-PATENT-APPL-SN-753977
			NASA-CASE-NPO-13859-1				US-PATENT-APPL-SN-801452				US-PATENT-CLASS-200-46
			US-PATENT-APPL-SN-740153				US-PATENT-CLASS-126-270				US-PATENT-CLASS-200-61
			US-PATENT-CLASS-102-28R				US-PATENT-CLASS-126-271				

		US-PATENT-CLASS-250-214AL			US-PATENT-APPL-SN-589172			US-PATENT-CLASS-303-92
		US-PATENT-CLASS-250-214R			US-PATENT-APPL-SN-767912			US-PATENT-CLASS-415-9
		US-PATENT-CLASS-315-153			US-PATENT-CLASS-427-294			US-PATENT-CLASS-416-2
		US-PATENT-4,122,334			US-PATENT-CLASS-427-41			US-PATENT-CLASS-74-572
N79-13214* #	c 32	NASA-CASE-NPO-14009-1			US-PATENT-CLASS-428-411			US-PATENT-4,132,130
		US-PATENT-APPL-SN-818917			US-PATENT-4,132,829	N79-14528* #	c 44	NASA-CASE-LEW-12236-2
		US-PATENT-CLASS-343-117R	N79-14228* #	c 28	NASA-CASE-NPO-10866-1			US-PATENT-APPL-SN-760771
		US-PATENT-CLASS-343-118			US-PATENT-APPL-SN-849274			US-PATENT-APPL-SN-899123
		US-PATENT-CLASS-343-7.4			US-PATENT-CLASS-149-19.9			US-PATENT-CLASS-136-895J
		US-PATENT-4,122,454			US-PATENT-CLASS-149-19.92			US-PATENT-CLASS-357-30
N79-13288* #	c 34	NASA-CASE-LEW-12252-1			US-PATENT-CLASS-149-20			US-PATENT-4,131,486
		US-PATENT-APPL-SN-559847			US-PATENT-4,111,729	N79-14529* #	c 44	NASA-CASE-NPO-13579-4
		US-PATENT-CLASS-165-169	N79-14267* #	c 32	NASA-CASE-NPO-13982-1			US-PATENT-APPL-SN-906297
		US-PATENT-CLASS-239-127.1			US-PATENT-APPL-SN-782464			US-PATENT-CLASS-126-271
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-292
		US-PATENT-4,107,919			US-PATENT-CLASS-343-14			US-PATENT-CLASS-350-293
N79-13289* #	c 34	NASA-CASE-LEW-12441-1			US-PATENT-CLASS-364-458			US-PATENT-CLASS-350-320
		US-PATENT-APPL-SN-559846			US-PATENT-CLASS-364-604			US-PATENT-4,131,336
		US-PATENT-CLASS-165-146			US-PATENT-CLASS-364-728	N79-14749* #	c 52	NASA-CASE-NPO-13930-1
		US-PATENT-CLASS-165-169			US-PATENT-4,112,497			US-PATENT-APPL-SN-700487
		US-PATENT-CLASS-239-127.1	N79-14268* #	c 32	NASA-CASE-NPO-14019-1			US-PATENT-CLASS-128-214D
		US-PATENT-CLASS-60-267			US-PATENT-APPL-SN-843308			US-PATENT-CLASS-128-272
		US-PATENT-4,108,241			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-150-1
N79-13364* #	c 37	NASA-CASE-LAR-10941-2			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-395493			US-PATENT-4,132,989			US-PATENT-CLASS-206-439
		US-PATENT-CLASS-228-107	N79-14305* #	c 33	NASA-CASE-KSC-11057-1			US-PATENT-CLASS-210-DIG.23
		US-PATENT-CLASS-228-2.5			US-PATENT-APPL-SN-835544			US-PATENT-CLASS-422-41
		US-PATENT-CLASS-29-421E			US-PATENT-CLASS-324-102			US-PATENT-CLASS-422-48
		US-PATENT-4,106,687			US-PATENT-CLASS-324-112			US-PATENT-CLASS-55-15-8
N79-13826* #	c 72	NASA-CASE-NPO-13993-1			US-PATENT-CLASS-324-113			US-PATENT-4,132,594
		US-PATENT-APPL-SN-782463			US-PATENT-CLASS-324-133	N79-14750* #	c 52	NASA-CASE-GSC-12046-1
		US-PATENT-CLASS-331-94.5L			US-PATENT-CLASS-324-72			US-PATENT-APPL-SN-680015
		US-PATENT-CLASS-331-94.5P			US-PATENT-4,112,357			US-PATENT-CLASS-195-103.5K
		US-PATENT-CLASS-331-94.5PE	N79-14345* #	c 35	NASA-CASE-LEW-12661-1			US-PATENT-CLASS-195-103.5L
		US-PATENT-4,107,627			US-PATENT-APPL-SN-837796			US-PATENT-4,132,599
N79-13855* #	c 74	NASA-CASE-MFS-23052-2			US-PATENT-CLASS-73-115	N79-14751* #	c 52	NASA-CASE-NPO-13935-1
		US-PATENT-APPL-SN-590183			US-PATENT-4,111,041			NASA-CASE-NPO-13944-1
		US-PATENT-APPL-SN-772165	N79-14346* #	c 35	NASA-CASE-LEW-12174-2			US-PATENT-APPL-SN-741749
		US-PATENT-CLASS-35-12C			US-PATENT-APPL-SN-667929			US-PATENT-CLASS-128-2V
		US-PATENT-CLASS-35-12N			US-PATENT-APPL-SN-853679			US-PATENT-CLASS-73-633
		US-PATENT-CLASS-358-104			US-PATENT-CLASS-136-202			US-PATENT-CLASS-73-644
		US-PATENT-4,106,218			US-PATENT-CLASS-136-236			US-PATENT-4,130,112
N79-14095* #	c 07	NASA-CASE-LEW-13050-1			US-PATENT-4,111,718	N79-14871* #	c 71	NASA-CASE-LEW-12658-1
		US-PATENT-APPL-SN-513346	N79-14347* #	c 35	NASA-CASE-LAR-12230-1			US-PATENT-APPL-SN-702115
		US-PATENT-CLASS-416-157B			US-PATENT-APPL-SN-835628			US-PATENT-CLASS-181-190
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-73-147			US-PATENT-CLASS-181-213
		US-PATENT-CLASS-416-162			US-PATENT-CLASS-73-4R			US-PATENT-CLASS-181-222
		US-PATENT-CLASS-416-167			US-PATENT-CLASS-73-714			US-PATENT-CLASS-181-293
		US-PATENT-4,124,330			US-PATENT-CLASS-73-721			US-PATENT-4,106,587
N79-14096* #	c 07	NASA-CASE-LEW-12389-3			US-PATENT-CLASS-73-756	N79-14891* #	c 74	NASA-CASE-GSC-12225-1
		US-PATENT-APPL-SN-552108			US-PATENT-4,111,058			US-PATENT-APPL-SN-823566
		US-PATENT-APPL-SN-753452	N79-14348* #	c 35	NASA-CASE-NPO-13569-2			US-PATENT-CLASS-350-157
		US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-565162			US-PATENT-4,129,357
		US-PATENT-CLASS-244-54			US-PATENT-APPL-SN-804035	N79-14892* #	c 74	NASA-CASE-LAR-12251-1
		US-PATENT-CLASS-415-200			US-PATENT-CLASS-318-573			US-PATENT-APPL-SN-953389
		US-PATENT-CLASS-415-201			US-PATENT-CLASS-318-594	N79-14906* #	c 76	NASA-CASE-MFS-23541-1
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-318-640			US-PATENT-APPL-SN-814005
		US-PATENT-CLASS-60-226R			US-PATENT-4,132,940			US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-60-39.31	N79-14349* #	c 35	NASA-CASE-LAR-11859-1			US-PATENT-4,111,775
		US-PATENT-4,132,069			US-PATENT-APPL-SN-861396	N79-15245* #	c 33	NASA-CASE-ARC-10975-1
N79-14097* #	c 07	NASA-CASE-LEW-12378-1			US-PATENT-CLASS-324-57R			US-PATENT-APPL-SN-799832
		US-PATENT-APPL-SN-573029			US-PATENT-4,130,795			US-PATENT-CLASS-250-531
		US-PATENT-CLASS-239-265.39	N79-14362* #	c 36	NASA-CASE-GSC-12334-1			US-PATENT-CLASS-250-540
		US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-856464			US-PATENT-CLASS-250-541
		US-PATENT-4,132,068			US-PATENT-CLASS-324-0.5			US-PATENT-4,130,490
N79-14108* #	c 08	NASA-CASE-LAR-11868-2			US-PATENT-CLASS-331-94	N79-16246* #	c 35	NASA-CASE-NPO-10872-1
		US-PATENT-APPL-SN-651002			US-PATENT-4,128,814			US-PATENT-APPL-SN-805549
		US-PATENT-APPL-SN-779429	N79-14382* #	c 37	NASA-CASE-LAR-11900-1			US-PATENT-CLASS-179-100.2CH
		US-PATENT-CLASS-244-218			US-PATENT-APPL-SN-775239			US-PATENT-CLASS-340-174.1M
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-403-105			US-PATENT-CLASS-346-74MT
		US-PATENT-CLASS-244-90R			US-PATENT-CLASS-416-61			US-PATENT-3,626,114
		US-PATENT-4,132,375			US-PATENT-CLASS-74-586	N79-16678* #	c 76	NASA-CASE-NPO-11336-1
N79-14156* #	c 24	NASA-CASE-GSC-12207-1			US-PATENT-4,111,068			NASA-CASE-NPO-13247-1
		US-PATENT-APPL-SN-844344	N79-14383* #	c 37	NASA-CASE-NPO-13541-1			US-PATENT-APPL-SN-302913
		US-PATENT-CLASS-106-296			US-PATENT-APPL-SN-828262			US-PATENT-CLASS-117-107
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-81-119			US-PATENT-CLASS-117-119
		US-PATENT-CLASS-252-518			US-PATENT-CLASS-81-180B			US-PATENT-CLASS-117-234
		US-PATENT-4,111,851			US-PATENT-CLASS-81-90B			US-PATENT-CLASS-117-235
N79-14169* #	c 25	NASA-CASE-ARC-11121-1			US-PATENT-4,130,032			US-PATENT-CLASS-117-237
		US-PATENT-APPL-SN-850507	N79-14398* #	c 38	NASA-CASE-MSC-19672-1			US-PATENT-CLASS-117-239
		US-PATENT-CLASS-204-180G			US-PATENT-APPL-SN-696679			US-PATENT-CLASS-117-240
		US-PATENT-CLASS-204-180S			US-PATENT-CLASS-310-326			US-PATENT-CLASS-148-121
		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-310-336			US-PATENT-CLASS-148-6
		US-PATENT-CLASS-23-230B			US-PATENT-CLASS-73-632			US-PATENT-CLASS-75-134D
		US-PATENT-CLASS-424-12			US-PATENT-CLASS-73-641			US-PATENT-3,837,908
		US-PATENT-4,130,471			US-PATENT-CLASS-73-644	N79-16915* #	c 24	NASA-CASE-ARC-11040-1
N79-14213* #	c 27	NASA-CASE-NPO-13690-2			US-PATENT-4,122,725			US-PATENT-APPL-SN-778195
		US-PATENT-APPL-SN-858766	N79-14526* #	c 44	NASA-CASE-NPO-13921-1			US-PATENT-CLASS-156-331
		US-PATENT-CLASS-264-60			US-PATENT-APPL-SN-785257			US-PATENT-CLASS-428-117
		US-PATENT-CLASS-75-203			US-PATENT-CLASS-126-270			US-PATENT-CLASS-428-119
		US-PATENT-CLASS-75-205			US-PATENT-CLASS-126-271			US-PATENT-CLASS-428-375
		US-PATENT-CLASS-75-206			US-PATENT-4,111,184			US-PATENT-CLASS-428-458
		US-PATENT-CLASS-75-212	N79-14527* #	c 44	NASA-CASE-HQN-10888-1			US-PATENT-CLASS-428-73
		US-PATENT-CLASS-75-226			US-PATENT-APPL-SN-760057			US-PATENT-4,135,019
		US-PATENT-4,131,459			US-PATENT-CLASS-188-151A	N79-17029* #	c 31	NASA-CASE-GSC-12168-1
N79-14214* #	c 27	NASA-CASE-ARC-10892-2			US-PATENT-CLASS-188-269			US-PATENT-APPL-SN-838337

		US-PATENT-CLASS-165-30			US-PATENT-4,110,683			US-PATENT-CLASS-340-34700
		US-PATENT-CLASS-174-15CA			NASA-CASE-LAR-12275-1			US-PATENT-CLASS-364-900
		US-PATENT-CLASS-250-352			US-PATENT-APPL-SN-885065			US-PATENT-4,139,839
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-356-28		N79-20827* #	NASA-CASE-NPO-14005-1
		US-PATENT-4,134,447			US-PATENT-CLASS-358-107			US-PATENT-APPL-SN-812447
N79-17133* #	c 33	NASA-CASE-MFS-23659-1			US-PATENT-4,135,817			US-PATENT-CLASS-310-20
		US-PATENT-APPL-SN-782462			NASA-CASE-LAR-12183-1			US-PATENT-CLASS-310-26
		US-PATENT-CLASS-323-44F			US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-310-322
		US-PATENT-CLASS-336-DIG.1			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-310-334
		US-PATENT-4,135,127			US-PATENT-CLASS-788-704			US-PATENT-CLASS-318-116
N79-17134* #	c 33	NASA-CASE-NPO-14426-1			US-PATENT-4,110,703			US-PATENT-CLASS-60-721
		US-PATENT-APPL-SN-009889			NASA-CASE-LEW-12131-1			US-PATENT-CLASS-73-505
N79-17192* #	c 35	NASA-CASE-LEW-11583-1			US-PATENT-APPL-SN-801290			US-PATENT-4,139,806
		US-PATENT-APPL-SN-414042			US-PATENT-CLASS-415-174		N79-20856* #	NASA-CASE-NPO-14174-1
		US-PATENT-CLASS-55-118			US-PATENT-CLASS-415-200			US-PATENT-APPL-SN-876441
		US-PATENT-CLASS-55-122			US-PATENT-4,135,851			US-PATENT-CLASS-250-237G
		US-PATENT-CLASS-55-127			NASA-CASE-NPO-14058-1			US-PATENT-CLASS-354-77
		US-PATENT-CLASS-55-155			US-PATENT-APPL-SN-824024			US-PATENT-CLASS-356-129
		US-PATENT-CLASS-55-241			US-PATENT-CLASS-126-271			US-PATENT-4,139,291
		US-PATENT-CLASS-55-242			US-PATENT-CLASS-165-105		N79-20857* #	NASA-CASE-GSC-12263-1
		US-PATENT-CLASS-55-360			US-PATENT-CLASS-60-508			US-PATENT-APPL-SN-817415
		US-PATENT-CLASS-55-407			US-PATENT-CLASS-60-572			US-PATENT-CLASS-250-363R
		US-PATENT-4,134,744			US-PATENT-CLASS-60-641			US-PATENT-CLASS-250-483
N79-17288* #	c 43	NASA-CASE-NPO-13691-1			US-PATENT-4,135,367			US-PATENT-4,142,101
		US-PATENT-APPL-SN-664091			NASA-CASE-LEW-12819-2		N79-21083* #	NASA-CASE-LAR-10135-1
		US-PATENT-CLASS-250-226			US-PATENT-APPL-SN-863770			US-PATENT-APPL-SN-648034
		US-PATENT-CLASS-356-300			US-PATENT-CLASS-148-6.3			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-356-407			US-PATENT-CLASS-29-572			US-PATENT-3,453,878
		US-PATENT-CLASS-356-416			US-PATENT-CLASS-29-578		N79-21084* #	NASA-CASE-XLE-03186-1
		US-PATENT-4,134,683			US-PATENT-CLASS-29-591			US-PATENT-APPL-SN-200770
N79-17313* #	c 44	NASA-CASE-LEW-12358-1			US-PATENT-4,135,290			US-PATENT-CLASS-69-8
		US-PATENT-APPL-SN-776146			NASA-CASE-ARC-11035-1			US-PATENT-3,224,337
		US-PATENT-CLASS-429-101			US-PATENT-APPL-SN-758721		N79-21123* #	NASA-CASE-XMF-06884-1
		US-PATENT-CLASS-429-33			US-PATENT-CLASS-128-2.052			US-PATENT-APPL-SN-579300
		US-PATENT-4,133,941			US-PATENT-CLASS-128-2.1A			US-PATENT-CLASS-164-105
N79-17314* #	c 44	NASA-CASE-NPO-13652-1			US-PATENT-CLASS-128-2V			US-PATENT-3,485,290
		US-PATENT-APPL-SN-809890			US-PATENT-4,109,644		N79-21124* #	NASA-CASE-XMF-05964-1
		US-PATENT-CLASS-136-89CC			NASA-CASE-WOO-00428-1			US-PATENT-APPL-SN-578397
		US-PATENT-CLASS-136-89P			US-PATENT-APPL-SN-112999			US-PATENT-CLASS-60-243
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-117-35			US-PATENT-3,390,528
		US-PATENT-4,133,697			US-PATENT-3,173,801		N79-21125* #	NASA-CASE-XMF-04592-1
N79-17747* #	c 85	NASA-CASE-NPO-13847-2			NASA-CASE-NPO-14525-1			NASA-CASE-XMF-04593-1
		NASA-CASE-NPO-13848-2			US-PATENT-APPL-SN-017885			US-PATENT-APPL-SN-579376
		US-PATENT-APPL-SN-750798			NASA-CASE-XGS-00829-1			US-PATENT-CLASS-60-39.74
		US-PATENT-CLASS-162-14			US-PATENT-APPL-SN-286824			US-PATENT-3,397,537
		US-PATENT-CLASS-162-29			US-PATENT-CLASS-269-153		N79-21190* #	NASA-CASE-XMF-02526-1
		US-PATENT-CLASS-210-28			US-PATENT-3,262,694			NASA-CASE-XMF-02527-1
		US-PATENT-CLASS-210-40			NASA-CASE-LEW-12780-1			NASA-CASE-XMF-02783-1
		US-PATENT-CLASS-210-45			US-PATENT-APPL-SN-891370			US-PATENT-APPL-SN-483817
		US-PATENT-CLASS-210-54			US-PATENT-CLASS-323-15			US-PATENT-CLASS-260-2
		US-PATENT-CLASS-210-66			US-PATENT-CLASS-323-20			US-PATENT-3,311,571
		US-PATENT-CLASS-210-67			US-PATENT-4,143,314		N79-21191* #	NASA-CASE-XMF-06900-1
		US-PATENT-CLASS-210-70			NASA-CASE-GSC-12148-1			US-PATENT-APPL-SN-554959
		US-PATENT-CLASS-210-73R			US-PATENT-APPL-SN-786322			US-PATENT-CLASS-260-67
		US-PATENT-4,134,786			US-PATENT-CLASS-325-58			US-PATENT-3,419,531
N79-17847* #	c 05	NASA-CASE-ARC-11045-1			US-PATENT-CLASS-325-63		N79-21225* #	NASA-CASE-XLE-02367-1
		US-PATENT-APPL-SN-818916			US-PATENT-CLASS-343-179			US-PATENT-APPL-SN-400857
		US-PATENT-CLASS-416-132R			US-PATENT-4,140,972			US-PATENT-CLASS-222-131
		US-PATENT-CLASS-416-138			NASA-CASE-MS-16253-1			US-PATENT-3,215,313
		US-PATENT-CLASS-416-51			US-PATENT-APPL-SN-831631		N79-21226* #	NASA-CASE-MFS-10946-1
		US-PATENT-CLASS-416-88			US-PATENT-CLASS-358-109			US-PATENT-APPL-SN-581843
		US-PATENT-CLASS-416-89			US-PATENT-CLASS-358-81			US-PATENT-CLASS-156-52
		US-PATENT-4,137,010			US-PATENT-CLASS-364-713			US-PATENT-3,481,802
N79-17916* #	c 24	NASA-CASE-LEW-11930-4			US-PATENT-4,139,862		N79-21227* #	NASA-CASE-XMF-05757-1
		US-PATENT-APPL-SN-860406			NASA-CASE-GSC-12138-1			US-PATENT-APPL-SN-562558
		US-PATENT-CLASS-252-12.2			US-PATENT-APPL-SN-779871			US-PATENT-CLASS-117-43
		US-PATENT-CLASS-308-DIG.8			US-PATENT-CLASS-310-231			US-PATENT-3,511,680
		US-PATENT-CLASS-308-DIG.9			US-PATENT-CLASS-310-46		N79-21264* #	NASA-CASE-XMF-05373-1
		US-PATENT-CLASS-308-168			US-PATENT-CLASS-310-82			US-PATENT-APPL-SN-474815
		US-PATENT-CLASS-308-171			US-PATENT-4,142,119			US-PATENT-CLASS-335-216
		US-PATENT-CLASS-308-78			NASA-CASE-NPO-14130-1			US-PATENT-3,310,785
		US-PATENT-CLASS-308-87R			US-PATENT-APPL-SN-847278		N79-21265* #	NASA-CASE-XNP-02899-1
		US-PATENT-CLASS-427-292			US-PATENT-CLASS-415-1			US-PATENT-APPL-SN-472643
		US-PATENT-CLASS-427-327			US-PATENT-CLASS-415-143			US-PATENT-CLASS-317-245
		US-PATENT-CLASS-427-328			US-PATENT-CLASS-60-645			US-PATENT-3,356,917
		US-PATENT-CLASS-427-34			US-PATENT-CLASS-60-649		N79-21345* #	NASA-CASE-XMS-01295-1
		US-PATENT-CLASS-427-355			US-PATENT-4,141,219			US-PATENT-APPL-SN-77869
		US-PATENT-CLASS-427-376B			NASA-CASE-LEW-11981-2			US-PATENT-CLASS-55-159
		US-PATENT-CLASS-427-376C			US-PATENT-APPL-SN-829315			US-PATENT-3,131,040
		US-PATENT-4,136,211			US-PATENT-CLASS-250-352		N79-21750* #	NASA-CASE-MS-12239-1
N79-18052* #	c 27	NASA-CASE-ARC-10915-2			US-PATENT-CLASS-313-22			US-PATENT-APPL-SN-292340
		US-PATENT-APPL-SN-634304			US-PATENT-CLASS-313-35			US-PATENT-CLASS-128-2.07
		US-PATENT-APPL-SN-779883			US-PATENT-CLASS-62-268			US-PATENT-3,396,719
		US-PATENT-CLASS-427-40			US-PATENT-CLASS-62-376		N79-21910* #	NASA-CASE-XLE-02545-1
		US-PATENT-CLASS-427-41			US-PATENT-CLASS-62-514R			US-PATENT-APPL-SN-430748
		US-PATENT-CLASS-428-412			US-PATENT-4,141,224			US-PATENT-CLASS-156-17
		US-PATENT-CLASS-428-447			NASA-CASE-MS-19514-1			US-PATENT-3,429,756
		US-PATENT-CLASS-428-451			US-PATENT-APPL-SN-772168		N79-22235* #	NASA-CASE-LEW-12513-1
		US-PATENT-4,137,365			US-PATENT-CLASS-74-674			US-PATENT-APPL-SN-772167
N79-18193* #	c 33	NASA-CASE-KSC-10899-1			US-PATENT-CLASS-74-705			US-PATENT-CLASS-195-103.5R
		US-PATENT-APPL-SN-814004			US-PATENT-CLASS-74-764			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-324-127			US-PATENT-4,141,259			US-PATENT-CLASS-204-1T
		US-PATENT-CLASS-324-133			NASA-CASE-NPO-14521-1			US-PATENT-CLASS-2041-195B
		US-PATENT-CLASS-324-52			US-PATENT-APPL-SN-023439			US-PATENT-4,145,255
		US-PATENT-CLASS-340-650			NASA-CASE-NPO-13676-1		N79-22271* #	NASA-CASE-LEW-12542-2
		US-PATENT-CLASS-340-664			US-PATENT-APPL-SN-779415			US-PATENT-APPL-SN-803822

			US-PATENT-APPL-SN-860405				US-PATENT-4,149,938				US-PATENT-APPL-SN-322997
			US-PATENT-CLASS-148-12.4		N79-24203* #	c 32	NASA-CASE-LAR-12375-1				US-PATENT-APPL-SN-506803
			US-PATENT-CLASS-148-12F				US-PATENT-APPL-SN-900842				US-PATENT-APPL-SN-645502
			US-PATENT-CLASS-148-2				US-PATENT-CLASS-73-647				US-PATENT-CLASS-156-89
			US-PATENT-4,146,409				US-PATENT-CLASS-73-724				US-PATENT-CLASS-220-2.2
N79-22300* #	c 27		NASA-CASE-ARC-11060-1		N79-24210* #	c 32	US-PATENT-4,149,423				US-PATENT-CLASS-65-43
			US-PATENT-APPL-SN-843090				NASA-CASE-NPO-13641-1				US-PATENT-3,859,714
			US-PATENT-CLASS-260-307G				US-PATENT-APPL-SN-777983				US-PATENT-4,155,475
			US-PATENT-CLASS-528-401				US-PATENT-CLASS-343-100TD		N79-25443* #	c 43	NASA-CASE-MFS-23720-3
			US-PATENT-CLASS-528-422				US-PATENT-4,148,031				US-PATENT-APPL-SN-848420
			US-PATENT-4,145,524		N79-24254* #	c 33	NASA-CASE-NPO-14000-1				US-PATENT-CLASS-73-12
N79-22373* #	c 33		NASA-CASE-KSC-11008-1				US-PATENT-APPL-SN-876431				US-PATENT-CLASS-73-82
			US-PATENT-APPL-SN-780729				US-PATENT-CLASS-307-82				US-PATENT-4,154,084
			US-PATENT-CLASS-324-123C				US-PATENT-CLASS-363-56		N79-25481* #	c 44	NASA-CASE-LEW-12972-1
			US-PATENT-CLASS-324-99D				US-PATENT-CLASS-363-71				US-PATENT-APPL-SN-897829
			US-PATENT-CLASS-330-2				US-PATENT-CLASS-363-97				US-PATENT-CLASS-429-253
			US-PATENT-CLASS-330-51				US-PATENT-4,150,425				US-PATENT-CLASS-526-7
			US-PATENT-CLASS-330-86		N79-24257* #	c 33	NASA-CASE-NPO-14056-1				US-PATENT-CLASS-526-9
			US-PATENT-4,109,213				US-PATENT-APPL-SN-833637				US-PATENT-4,154,912
N79-22474* #	c 37		NASA-CASE-MFS-23646-1				US-PATENT-CLASS-363-134		N79-25482* #	c 44	NASA-CASE-NPO-14199-1
			US-PATENT-APPL-SN-891372				US-PATENT-CLASS-363-71				NASA-CASE-NPO-14200-1
			US-PATENT-CLASS-138-96R				US-PATENT-CLASS-363-95				US-PATENT-APPL-SN-891243
			US-PATENT-CLASS-220-266				US-PATENT-4,149,233				US-PATENT-CLASS-136-89CA
			US-PATENT-CLASS-239-265.15		N79-24285* #	c 34	NASA-CASE-MS-16841-1				US-PATENT-CLASS-136-89CC
			US-PATENT-CLASS-239-288				US-PATENT-APPL-SN-893382				US-PATENT-CLASS-136-89PC
			US-PATENT-CLASS-277-192				US-PATENT-CLASS-210-108				US-PATENT-CLASS-136-89SJ
			US-PATENT-4,146,180				US-PATENT-CLASS-210-142				US-PATENT-4,153,476
N79-22475* #	c 37		NASA-CASE-LEW-11873-1				US-PATENT-CLASS-73-714		N79-26075* #	c 12	NASA-CASE-MFS-23460-1
			US-PATENT-APPL-SN-814006				US-PATENT-4,151,086				US-PATENT-APPL-SN-746578
			US-PATENT-CLASS-277-62		N79-24431* #	c 44	NASA-CASE-NPO-13652-2				US-PATENT-CLASS-13-20
			US-PATENT-CLASS-277-96.1				US-PATENT-APPL-SN-848794				US-PATENT-CLASS-13-22
			US-PATENT-4,145,058				US-PATENT-CLASS-228-5.1				US-PATENT-CLASS-13-24
N79-22537* #	c 39		NASA-CASE-LAR-12027-1				US-PATENT-CLASS-228-6				US-PATENT-CLASS-219-410
			US-PATENT-APPL-SN-889670				US-PATENT-CLASS-29-57.4				US-PATENT-4,158,742
			US-PATENT-CLASS-73-770				US-PATENT-CLASS-29-572		N79-26100* #	c 15	NASA-CASE-ARC-11104-1
			US-PATENT-CLASS-73-810				US-PATENT-CLASS-29-739				US-PATENT-APPL-SN-854920
			US-PATENT-4,145,933				US-PATENT-CLASS-29-809				US-PATENT-CLASS-244-121
N79-22679* #	c 46		NASA-CASE-NPO-14112-1				US-PATENT-4,149,665				US-PATENT-CLASS-260-37EP
			US-PATENT-APPL-SN-826326		N79-24432* #	c 44	NASA-CASE-NPO-13579-3				US-PATENT-CLASS-260-830S
			US-PATENT-CLASS-102-21.6				US-PATENT-APPL-SN-762363				US-PATENT-CLASS-264-102
			US-PATENT-CLASS-166-63				US-PATENT-CLASS-126-270				US-PATENT-CLASS-264-145
			US-PATENT-CLASS-175-1				US-PATENT-CLASS-264-1				US-PATENT-CLASS-264-151
			US-PATENT-CLASS-181-106				US-PATENT-CLASS-264-33				US-PATENT-CLASS-264-175
			US-PATENT-CLASS-181-117				US-PATENT-CLASS-264-34				US-PATENT-CLASS-264-236
			US-PATENT-4,148,375				US-PATENT-CLASS-264-35				US-PATENT-CLASS-428-220
N79-23097* #	c 08		NASA-CASE-LAR-12215-1				US-PATENT-CLASS-264-510				US-PATENT-CLASS-428-413
			US-PATENT-APPL-SN-858762				US-PATENT-CLASS-264-516				US-PATENT-CLASS-428-414
			US-PATENT-CLASS-244-17.13				US-PATENT-CLASS-264-70				US-PATENT-CLASS-428-418
			US-PATENT-CLASS-244-195				US-PATENT-CLASS-264-71				US-PATENT-CLASS-428-421
			US-PATENT-CLASS-244-83G				US-PATENT-CLASS-350-292				US-PATENT-CLASS-428-920
			US-PATENT-CLASS-318-585				US-PATENT-CLASS-350-294				US-PATENT-4,156,752
			US-PATENT-CLASS-318-616				US-PATENT-CLASS-350-296		N79-26372* #	c 35	NASA-CASE-LAR-11889-1
			US-PATENT-CLASS-364-434				US-PATENT-CLASS-405-229				US-PATENT-APPL-SN-662182
			US-PATENT-4,148,452				US-PATENT-CLASS-405-263				US-PATENT-CLASS-308-10
N79-23310* #	c 32		NASA-CASE-KSC-11023-1				US-PATENT-4,149,817				US-PATENT-CLASS-73-178R
			US-PATENT-APPL-SN-918533		N79-24433* #	c 44	NASA-CASE-NPO-13579-2				US-PATENT-4,156,548
			US-PATENT-CLASS-179-1MN				US-PATENT-APPL-SN-762362				NASA-CASE-MFS-23726-1
			US-PATENT-CLASS-179-27CA				US-PATENT-CLASS-126-271		N79-26439* #	c 43	US-PATENT-APPL-SN-848418
			US-PATENT-CLASS-179-84VF				US-PATENT-CLASS-126-400				US-PATENT-CLASS-105-161
			US-PATENT-4,153,818				US-PATENT-CLASS-237-1A				US-PATENT-CLASS-299-1
N79-23345* #	c 33		NASA-CASE-FRC-10116-1				US-PATENT-CLASS-350-288				US-PATENT-CLASS-33-1N
			US-PATENT-APPL-SN-885049				US-PATENT-CLASS-350-299				US-PATENT-CLASS-33-1Q
			US-PATENT-CLASS-323-22T				US-PATENT-4,149,521				US-PATENT-CLASS-33-174L
			US-PATENT-4,151,456		N79-24651* #	c 54	NASA-CASE-ARC-11058-2				US-PATENT-CLASS-364-560
N79-23481* #	c 44		NASA-CASE-MFS-23349-1				US-PATENT-APPL-SN-753965				US-PATENT-4,156,971
			US-PATENT-APPL-SN-823061				US-PATENT-APPL-SN-883094		N79-26474* #	c 44	NASA-CASE-LEW-13150-1
			US-PATENT-CLASS-126-270				US-PATENT-CLASS-2-2.1A				US-PATENT-APPL-SN-914260
			US-PATENT-CLASS-126-271				US-PATENT-CLASS-285-235				US-PATENT-CLASS-429-101
			US-PATENT-4,148,295				US-PATENT-4,091,464				US-PATENT-CLASS-429-15
N79-23555* #	c 46		NASA-CASE-NPO-14255-1				US-PATENT-4,151,612				US-PATENT-4,159,366
			US-PATENT-APPL-SN-830458		N79-24652* #	c 54	NASA-CASE-NPO-13906-1				NASA-CASE-MFS-23540-1
			US-PATENT-CLASS-181-115				US-PATENT-APPL-SN-837259				US-PATENT-APPL-SN-863773
			US-PATENT-CLASS-181-120				US-PATENT-CLASS-3-1.1				US-PATENT-CLASS-29-572
			US-PATENT-CLASS-340-12R				US-PATENT-CLASS-3-12.5				US-PATENT-CLASS-29-577
			US-PATENT-4,153,134				US-PATENT-CLASS-414-6				US-PATENT-CLASS-29-578
N79-23753* #	c 71		NASA-CASE-NPO-14134-1				US-PATENT-4,149,278				US-PATENT-CLASS-29-580
			US-PATENT-APPL-SN-861392		N79-24976* #	c 05	NASA-CASE-LEW-11890-1				US-PATENT-CLASS-357-45
			US-PATENT-CLASS-179-1DM				US-PATENT-APPL-SN-891244				US-PATENT-4,156,309
			US-PATENT-CLASS-179-1MF				US-PATENT-CLASS-137-15.1				NASA-CASE-ARC-10994-2
			US-PATENT-CLASS-181-148				US-PATENT-CLASS-244-53B				US-PATENT-APPL-SN-759965
			US-PATENT-CLASS-340-8LF				US-PATENT-4,154,256				US-PATENT-CLASS-128-660
			US-PATENT-4,149,034		N79-25142* #	c 24	NASA-CASE-MS-12737-1				US-PATENT-CLASS-73-626
N79-23798* #	c 76		NASA-CASE-NPO-13969-1				US-PATENT-APPL-SN-788045				US-PATENT-4,154,230
			US-PATENT-APPL-SN-820499				US-PATENT-CLASS-102-105				NASA-CASE-KSC-11069-1
			US-PATENT-CLASS-156-DIG.6-8				US-PATENT-CLASS-244-121		N79-26772* #	c 52	US-PATENT-APPL-SN-876438
			US-PATENT-CLASS-156-617SP				US-PATENT-CLASS-244-163				US-PATENT-CLASS-3-1.9
			US-PATENT-CLASS-423-345				US-PATENT-CLASS-427-350				US-PATENT-CLASS-3-12
			US-PATENT-4,152,194				US-PATENT-CLASS-427-372A				US-PATENT-CLASS-3-2
N79-24062* #	c 24		NASA-CASE-ARC-11169-1				US-PATENT-CLASS-428-137				US-PATENT-4,158,895
			US-PATENT-APPL-SN-940688				US-PATENT-CLASS-428-282				NASA-CASE-NPO-13910-1
			US-PATENT-CLASS-428-366				US-PATENT-CLASS-428-290		N79-27836* #	c 52	US-PATENT-APPL-SN-712270
			US-PATENT-4,148,962				US-PATENT-CLASS-428-332				US-PATENT-CLASS-128-329R
N79-24073* #	c 25		NASA-CASE-LAR-11922-1				US-PATENT-CLASS-428-447				US-PATENT-CLASS-128-639
			US-PATENT-APPL-SN-856460				US-PATENT-CLASS-428-920				US-PATENT-4,154,228
			US-PATENT-CLASS-195-127				US-PATENT-4,151,800		N79-28253* #	c 25	NASA-CASE-NPO-13650-1
			US-PATENT-CLASS-204-195B				NASA-CASE-GSC-11577-3				US-PATENT-APPL-SN-704468

			US-PATENT-CLASS-118-49				US-PATENT-CLASS-250-272				US-PATENT-CLASS-422-187
			US-PATENT-CLASS-23-252R				US-PATENT-4,165,460				US-PATENT-CLASS-422-199
			US-PATENT-CLASS-248				NASA-CASE-NPO-14205-1				US-PATENT-CLASS-422-208
			US-PATENT-CLASS-253				US-PATENT-APPL-SN-920879				US-PATENT-CLASS-422-235
			US-PATENT-CLASS-337				US-PATENT-CLASS-106-1				US-PATENT-CLASS-422-242
			US-PATENT-CLASS-349				US-PATENT-CLASS-106-1.2				US-PATENT-CLASS-423-350
			US-PATENT-CLASS-423-33-5				US-PATENT-CLASS-136-89CC				US-PATENT-4,169,129
			US-PATENT-CLASS-427-95				US-PATENT-CLASS-252-514				NASA-CASE-NPO-14192-1
			US-PATENT-4,033,286				US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-830562
			NASA-CASE-LEW-12053-2				US-PATENT-CLASS-29-589				US-PATENT-CLASS-181-102
			US-PATENT-APPL-SN-796263				US-PATENT-CLASS-357-30				US-PATENT-CLASS-181-105
			US-PATENT-CLASS-260-37N				US-PATENT-CLASS-357-65				US-PATENT-CLASS-367-26
			US-PATENT-CLASS-260-42				US-PATENT-CLASS-357-67				US-PATENT-CLASS-467-28
			US-PATENT-CLASS-260-53				US-PATENT-CLASS-427-88				US-PATENT-4,168,483
			US-PATENT-CLASS-528-126				US-PATENT-4,163,678				NASA-CASE-NPO-14231-1
			US-PATENT-CLASS-528-127				NASA-CASE-NPO-14467-1				US-PATENT-APPL-SN-903019
			US-PATENT-CLASS-528-128				US-PATENT-APPL-SN-946994				US-PATENT-CLASS-175-78
			US-PATENT-CLASS-528-221				US-PATENT-CLASS-136-89PC				US-PATENT-CLASS-73-155
			US-PATENT-CLASS-528-223				US-PATENT-4,162,928				US-PATENT-4,167,111
			US-PATENT-CLASS-528-225				NASA-CASE-LAR-12054-1				NASA-CASE-MSC-16182-1
			US-PATENT-CLASS-528-227				US-PATENT-APPL-SN-839963				US-PATENT-APPL-SN-780938
			US-PATENT-CLASS-528-229				US-PATENT-CLASS-264-137				US-PATENT-CLASS-128-142R
			US-PATENT-CLASS-528-331				US-PATENT-CLASS-428-474				US-PATENT-CLASS-128-191R
			US-PATENT-CLASS-528-336				US-PATENT-CLASS-528-229				US-PATENT-CLASS-128-212
			US-PATENT-CLASS-528-337				US-PATENT-4,166,170				US-PATENT-4,168,706
			US-PATENT-CLASS-528-338				NASA-CASE-XMF-04494-1				NASA-CASE-ARC-11106-1
			US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-547643				US-PATENT-APPL-SN-831633
			US-PATENT-CLASS-544-193				US-PATENT-CLASS-200-83				US-PATENT-CLASS-415-199
			US-PATENT-4,159,262				US-PATENT-3,378,657				US-PATENT-CLASS-416-228
			NASA-CASE-NPO-14260-1				NASA-CASE-XMS-01244-1				US-PATENT-CLASS-416-238
			US-PATENT-APPL-SN-861390				US-PATENT-APPL-SN-20370				US-PATENT-4,168,939
			US-PATENT-CLASS-149-19.4				US-PATENT-CLASS-200-114				NASA-CASE-GSC-12331-1
			US-PATENT-CLASS-149-19.9				US-PATENT-3,123,692				US-PATENT-APPL-SN-943088
			US-PATENT-CLASS-149-20				NASA-CASE-XGS-01245-1				US-PATENT-CLASS-343-880
			US-PATENT-4,158,583				US-PATENT-APPL-SN-134619				US-PATENT-CLASS-343-883
			NASA-CASE-MFS-23721-1				US-PATENT-CLASS-338-18				US-PATENT-4,176,360
			US-PATENT-APPL-SN-847277				US-PATENT-3,119,086				NASA-CASE-XLE-02062-1
			US-PATENT-CLASS-343-14				NASA-CASE-XGS-01293-1				US-PATENT-APPL-SN-545793
			US-PATENT-CLASS-343-5NA				US-PATENT-APPL-SN-150690				US-PATENT-CLASS-60-203
			US-PATENT-4,161,731				US-PATENT-CLASS-73-400				US-PATENT-CLASS-60-259
			NASA-CASE-MSC-16697-1				US-PATENT-3,190,124				US-PATENT-4,171,615
			US-PATENT-APPL-SN-885067				NASA-CASE-XMS-01077-1				NASA-CASE-NPO-14474-1
			US-PATENT-CLASS-307-119				US-PATENT-APPL-SN-228049				US-PATENT-APPL-SN-918537
			US-PATENT-CLASS-307-98				US-PATENT-CLASS-312-319				US-PATENT-CLASS-423-149
			US-PATENT-CLASS-361-170				US-PATENT-3,123,418				US-PATENT-CLASS-423-293
			US-PATENT-4,161,661				NASA-CASE-HQN-00573-1				US-PATENT-CLASS-423-348
			NASA-CASE-GSC-12171-1				US-PATENT-APPL-SN-129379				US-PATENT-CLASS-423-417
			US-PATENT-APPL-SN-878542				US-PATENT-CLASS-137-14				US-PATENT-CLASS-423-625
			US-PATENT-CLASS-343-909				US-PATENT-3,134,389				US-PATENT-4,172,883
			US-PATENT-4,160,254				NASA-CASE-XGS-01286-1				NASA-CASE-NPO-13830-1
			NASA-CASE-NPO-13953-1				US-PATENT-APPL-SN-142583				US-PATENT-APPL-SN-703905
			US-PATENT-APPL-SN-880727				US-PATENT-CLASS-251-172				US-PATENT-APPL-SN-834257
			US-PATENT-CLASS-356-237				US-PATENT-3,233,862				US-PATENT-CLASS-333-81R
			US-PATENT-CLASS-356-404				NASA-CASE-NPO-14066-1				US-PATENT-CLASS-343-18A
			US-PATENT-4,160,601				US-PATENT-APPL-SN-827464				US-PATENT-CLASS-343-909
			NASA-CASE-GSC-12297-1				US-PATENT-CLASS-250-216				US-PATENT-4,164,718
			US-PATENT-APPL-SN-880838				US-PATENT-CLASS-250-551				NASA-CASE-NPO-10857-1
			US-PATENT-CLASS-165-105				US-PATENT-4,166,959				US-PATENT-APPL-SN-888362
			US-PATENT-CLASS-357-74				NASA-CASE-MFS-23642-1				US-PATENT-CLASS-315-145
			US-PATENT-CLASS-357-79				US-PATENT-APPL-SN-923758				US-PATENT-CLASS-315-260
			US-PATENT-CLASS-357-81				US-PATENT-CLASS-137-177				US-PATENT-CLASS-315-334
			US-PATENT-CLASS-357-82				US-PATENT-CLASS-137-209				US-PATENT-3,635,537
			US-PATENT-CLASS-357-83				US-PATENT-CLASS-137-574				NASA-CASE-NPO-14350-1
			US-PATENT-4,161,747				US-PATENT-CLASS-137-576				US-PATENT-APPL-SN-921627
			NASA-CASE-GSC-12274-1				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-310
			US-PATENT-APPL-SN-909100				US-PATENT-CLASS-244-135R				US-PATENT-CLASS-250-492A
			US-PATENT-CLASS-251-7				US-PATENT-4,168,718				US-PATENT-CLASS-324-158R
			US-PATENT-CLASS-72-436				NASA-CASE-MSC-14903-2				US-PATENT-4,172,228
			US-PATENT-CLASS-72-451				US-PATENT-APPL-SN-706424				NASA-CASE-LAR-11690-1
			US-PATENT-CLASS-72-470				US-PATENT-APPL-SN-907435				US-PATENT-APPL-SN-928129
			US-PATENT-4,159,634				US-PATENT-CLASS-260-926				US-PATENT-CLASS-73-655
			NASA-CASE-ARC-11052-1				US-PATENT-4,092,466				US-PATENT-CLASS-73-661
			US-PATENT-APPL-SN-826202				US-PATENT-4,168,287				US-PATENT-4,171,645
			US-PATENT-CLASS-414-4				NASA-CASE-NPO-13849-1				NASA-CASE-GSC-12237-1
			US-PATENT-4,160,508				NASA-CASE-NPO-13907-1				US-PATENT-APPL-SN-837795
			NASA-CASE-LAR-12149-2				US-PATENT-APPL-SN-668783				US-PATENT-CLASS-331-94.5C
			US-PATENT-APPL-SN-829314				US-PATENT-CLASS-123-DIG.12				US-PATENT-CLASS-331-94.5P
			US-PATENT-APPL-SN-928131				US-PATENT-CLASS-123-179R				US-PATENT-4,173,001
			US-PATENT-CLASS-35-12E				US-PATENT-CLASS-123-3				NASA-CASE-XNP-08835-1
			US-PATENT-CLASS-35-12H				US-PATENT-CLASS-23-288R				US-PATENT-APPL-SN-534931
			US-PATENT-4,164,079				US-PATENT-CLASS-423-650				US-PATENT-CLASS-204-224
			NASA-CASE-GSC-12303-1				US-PATENT-CLASS-48-DIG.8				US-PATENT-3,352,774
			US-PATENT-APPL-SN-862880				US-PATENT-CLASS-48-10-3				NASA-CASE-MFS-23284-1
			US-PATENT-CLASS-106-74				US-PATENT-CLASS-48-102A				US-PATENT-APPL-SN-753103
			US-PATENT-CLASS-106-84				US-PATENT-CLASS-48-107				US-PATENT-CLASS-204-180G
			US-PATENT-4,162,169				US-PATENT-CLASS-48-117				US-PATENT-CLASS-204-299R
			NASA-CASE-GSC-12253-1				US-PATENT-CLASS-48-61				US-PATENT-4,040,940
			US-PATENT-APPL-SN-853677				US-PATENT-CLASS-60-300				NASA-CASE-GSC-12322-1
			US-PATENT-CLASS-165-105				US-PATENT-CLASS-60-606				US-PATENT-APPL-SN-907436
			US-PATENT-CLASS-165-32				US-PATENT-4,033,133				US-PATENT-CLASS-244-161
			US-PATENT-CLASS-244-1R				NASA-CASE-NPO-14384-1				US-PATENT-CLASS-269-156
			US-PATENT-CLASS-244-163				US-PATENT-APPL-SN-880728				US-PATENT-CLASS-294-113
			US-PATENT-4,162,701				US-PATENT-CLASS-210-186				US-PATENT-CLASS-294-86R
			NASA-CASE-MFS-23725-1				US-PATENT-CLASS-210-340				US-PATENT-CLASS-414-1
			US-PATENT-APPL-SN-848793				US-PATENT-CLASS-239-102				US-PATENT-4,173,324
			US-PATENT-CLASS-250-253				US-PATENT-CLASS-239-302				NASA-CASE-MFS-23720-2

		US-PATENT-APPL-SN-848421		US-PATENT-APPL-SN-017888	N80-18393* #	c 37	NASA-CASE-ARC-11157-1	
		US-PATENT-CLASS-73-12		US-PATENT-CLASS-204-180R			US-PATENT-APPL-SN-935827	
		US-PATENT-CLASS-73-82		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-220-423	
		US-PATENT-4,157,655		US-PATENT-CLASS-424-12			US-PATENT-CLASS-220-445	
N80-14472* #	c 44	NASA-CASE-LEW-12586-1	N80-16725* #	US-PATENT-4,181,589			US-PATENT-CLASS-220-901	
		US-PATENT-APPL-SN-916655		NASA-CASE-NPO-14092-1			US-PATENT-4,184,609	
		US-PATENT-CLASS-307-63		US-PATENT-APPL-SN-807597	N80-18400* #	c 37	NASA-CASE-NPO-12131-3	
		US-PATENT-CLASS-307-66		US-PATENT-CLASS-128-DIG.9			US-PATENT-APPL-SN-096255	
		US-PATENT-CLASS-323-15		US-PATENT-CLASS-128-348	N80-18402* #	c 37	NASA-CASE-LAR-11695-2	
		US-PATENT-CLASS-323-19		US-PATENT-CLASS-128-6			US-PATENT-APPL-SN-103836	
		US-PATENT-4,175,249		US-PATENT-CLASS-138-103	N80-18498* #	c 43	NASA-CASE-LAR-12344-1	
N80-14473* #	c 44	NASA-CASE-MFS-23727-1		US-PATENT-CLASS-138-133			US-PATENT-APPL-SN-945041	
		US-PATENT-APPL-SN-856465		US-PATENT-CLASS-138-33			US-PATENT-CLASS-343-18B	
		US-PATENT-CLASS-126-438		US-PATENT-CLASS-219-201			US-PATENT-CLASS-343-18D	
		US-PATENT-CLASS-126-442		US-PATENT-CLASS-219-522			US-PATENT-CLASS-343-5CM	
		US-PATENT-CLASS-350-295		US-PATENT-4,176,662			US-PATENT-CLASS-343-5W	
		US-PATENT-CLASS-350-296	N80-18036* #	c 06	NASA-CASE-FRC-11009-1	N80-18550* #	c 44	US-PATENT-4,184,155
		US-PATENT-4,173,397		US-PATENT-APPL-SN-910708			NASA-CASE-NPO-14303-1	
N80-14474* #	c 44	NASA-CASE-NPO-13652-3		US-PATENT-CLASS-340-177VA			NASA-CASE-NPO-14305-1	
		US-PATENT-APPL-SN-809890		US-PATENT-CLASS-73-188			US-PATENT-APPL-SN-928133	
		US-PATENT-APPL-SN-891358		US-PATENT-CLASS-73-189			US-PATENT-CLASS-156-104	
		US-PATENT-CLASS-136-89P		US-PATENT-CLASS-73-212			US-PATENT-CLASS-156-278	
		US-PATENT-CLASS-29-572		US-PATENT-4,184,149			US-PATENT-CLASS-156-285	
		US-PATENT-CLASS-29-588	N80-18039* #	c 07	NASA-CASE-LEW-12971-1		US-PATENT-CLASS-156-303	
		US-PATENT-CLASS-29-627		US-PATENT-APPL-SN-858936			US-PATENT-CLASS-156-312	
		US-PATENT-4,133,697		US-PATENT-CLASS-60-240			US-PATENT-4,184,903	
		US-PATENT-4,173,820		US-PATENT-CLASS-60-39.03	N80-18551* #	c 44	NASA-CASE-NPO-14096-1	
N80-14579* #	c 45	NASA-CASE-NPO-14340-1		US-PATENT-CLASS-60-39.27			US-PATENT-APPL-SN-928128	
		US-PATENT-APPL-SN-946992		US-PATENT-4,184,327			US-PATENT-CLASS-324-158D	
		US-PATENT-CLASS-210-57	N80-18097* #	c 20	NASA-CASE-MSC-18179-1		US-PATENT-CLASS-324-404	
		US-PATENT-CLASS-210-63Z		US-PATENT-APPL-SN-931218			US-PATENT-4,184,111	
		US-PATENT-CLASS-422-9		US-PATENT-CLASS-60-632	N80-18552* #	c 44	NASA-CASE-LAR-11999-1	
		US-PATENT-4,172,786		US-PATENT-4,183,217			US-PATENT-APPL-SN-876299	
N80-14603* #	c 46	NASA-CASE-NPO-14124-1	N80-18231* #	c 31	NASA-CASE-NPO-14382-1		US-PATENT-CLASS-250-211K	
		US-PATENT-APPL-SN-863024		US-PATENT-APPL-SN-891373			US-PATENT-CLASS-250-231SE	
		US-PATENT-CLASS-343-100ME		US-PATENT-CLASS-261-118			US-PATENT-4,184,072	
		US-PATENT-CLASS-343-112D		US-PATENT-CLASS-422-224	N80-18667* #	c 48	NASA-CASE-MFS-23862-1	
		US-PATENT-4,170,776		US-PATENT-CLASS-423-350			US-PATENT-APPL-SN-951423	
N80-14684* #	c 52	NASA-CASE-LEW-12955-1		US-PATENT-4,188,368			US-PATENT-CLASS-73-170A	
		US-PATENT-APPL-SN-829318	N80-18252* #	c 32	NASA-CASE-NPO-14152-1		US-PATENT-4,184,368	
		US-PATENT-CLASS-128-276		US-PATENT-APPL-SN-899828			NASA-CASE-LEW-12723-1	
		US-PATENT-4,157,718		US-PATENT-CLASS-178-58R	N80-18690* #	c 52	US-PATENT-APPL-SN-829317	
N80-14687* #	c 52	NASA-CASE-NPO-14101-1		US-PATENT-CLASS-179-158A			US-PATENT-CLASS-128-276	
		US-PATENT-APPL-SN-772434		US-PATENT-4,187,394			US-PATENT-CLASS-128-760	
		US-PATENT-CLASS-210-22	N80-18253* #	c 32	NASA-CASE-NPO-14328-1		US-PATENT-4,184,491	
		US-PATENT-CLASS-210-321B		NASA-CASE-NPO-14579-1	N80-18691* #	c 52	NASA-CASE-ARC-11120-1	
		US-PATENT-4,094,775		NASA-CASE-NPO-14590-1			US-PATENT-APPL-SN-796256	
N80-14877* #	c 72	NASA-CASE-NPO-14078-1		US-PATENT-APPL-SN-956160			US-PATENT-CLASS-128-748	
		US-PATENT-APPL-SN-856466		US-PATENT-CLASS-325-305			US-PATENT-CLASS-128-903	
		US-PATENT-CLASS-250-281		US-PATENT-CLASS-325-307			US-PATENT-CLASS-73-724	
		US-PATENT-CLASS-250-282		US-PATENT-CLASS-325-419			US-PATENT-4,186,749	
		US-PATENT-CLASS-250-423P		US-PATENT-4,186,347	N80-18951* #	c 76	NASA-CASE-GSC-12291-1	
		US-PATENT-4,158,775	N80-18285* #	c 33	NASA-CASE-NPO-14229-1		US-PATENT-APPL-SN-906298	
N80-16116* #	c 25	NASA-CASE-ARC-11107-1		US-PATENT-APPL-SN-835419			US-PATENT-CLASS-125-23R	
		US-PATENT-APPL-SN-883961		US-PATENT-APPL-SN-949886			US-PATENT-CLASS-269-21	
		US-PATENT-CLASS-521-124		US-PATENT-CLASS-200-153S			US-PATENT-CLASS-51-235	
		US-PATENT-CLASS-521-125		US-PATENT-CLASS-200-304			US-PATENT-CLASS-83-152	
		US-PATENT-CLASS-521-127		US-PATENT-CLASS-333-262			US-PATENT-CLASS-83-870	
		US-PATENT-CLASS-521-157		US-PATENT-4,187,416			US-PATENT-4,184,472	
		US-PATENT-CLASS-528-73	N80-18286* #	c 33	NASA-CASE-GSC-12347-1	N80-19237* #	c 26	NASA-CASE-MSC-18172-1
		US-PATENT-4,177,333		US-PATENT-APPL-SN-868249			US-PATENT-APPL-SN-119334	
N80-16158* #	c 27	NASA-CASE-LAR-12099-1		US-PATENT-CLASS-174-142	N80-19425* #	c 33	NASA-CASE-LEW-12296-1	
		US-PATENT-APPL-SN-906299		US-PATENT-CLASS-174-73R			US-PATENT-APPL-SN-122966	
		US-PATENT-CLASS-528-207		US-PATENT-4,185,164	N80-20224* #	c 02	NASA-CASE-LAR-12261-1	
		US-PATENT-CLASS-528-208	N80-18287* #	c 33	NASA-CASE-NPO-14224-1		US-PATENT-APPL-SN-964009	
		US-PATENT-4,180,648		US-PATENT-APPL-SN-951829			US-PATENT-CLASS-73-147	
N80-16163* #	c 27	NASA-CASE-NPO-14021-2		US-PATENT-CLASS-310-306			US-PATENT-CLASS-73-205L	
		US-PATENT-APPL-SN-106188		US-PATENT-CLASS-343-100R			US-PATENT-4,188,823	
N80-16261* #	c 32	NASA-CASE-NPO-14362-1		US-PATENT-CLASS-343-100ST	N80-20334* #	c 25	NASA-CASE-NPO-14079-1	
		US-PATENT-APPL-SN-106118		US-PATENT-4,187,506			US-PATENT-APPL-SN-958573	
N80-16321* #	c 36	NASA-CASE-LAR-12176-1	N80-18357* #	c 35	NASA-CASE-NPO-14501-1		US-PATENT-CLASS-250-307	
		US-PATENT-APPL-SN-929083		US-PATENT-APPL-SN-918535			US-PATENT-CLASS-250-308	
		US-PATENT-CLASS-332-751		US-PATENT-CLASS-264-40.4			US-PATENT-4,194,115	
		US-PATENT-CLASS-350-359		US-PATENT-CLASS-73-343R	N80-20402* #	c 28	NASA-CASE-LEW-12081-2	
		US-PATENT-CLASS-356-243		US-PATENT-CLASS-73-56			US-PATENT-APPL-SN-676432	
		US-PATENT-CLASS-356-28		US-PATENT-4,185,493			US-PATENT-APPL-SN-837794	
		US-PATENT-4,176,950	N80-18358* #	c 35	NASA-CASE-LAR-12269-1		US-PATENT-CLASS-149-1	
N80-16452* #	c 44	NASA-CASE-MFS-23518-3		US-PATENT-APPL-SN-934576			US-PATENT-CLASS-423-648R	
		US-PATENT-APPL-SN-829390		US-PATENT-CLASS-73-4R			US-PATENT-4,193,827	
		US-PATENT-APPL-SN-910793		US-PATENT-CLASS-73-40	N80-20448* #	c 32	NASA-CASE-NPO-14480-1	
		US-PATENT-CLASS-126-417		US-PATENT-4,182,158			US-PATENT-APPL-SN-910707	
		US-PATENT-CLASS-126-901	N80-18359* #	c 35	NASA-CASE-GSC-12219-1		US-PATENT-CLASS-325-14	
		US-PATENT-CLASS-428-629		US-PATENT-APPL-SN-891356			US-PATENT-CLASS-325-4	
		US-PATENT-CLASS-428-650		US-PATENT-CLASS-325-363			US-PATENT-CLASS-325-8	
		US-PATENT-CLASS-428-658		US-PATENT-CLASS-343-100ME			US-PATENT-CLASS-325-9	
		US-PATENT-CLASS-428-675		US-PATENT-CLASS-356-216			US-PATENT-4,189,675	
		US-PATENT-CLASS-428-680		US-PATENT-CLASS-73-355R	N80-20487* #	c 33	NASA-CASE-LEW-13148-1	
		US-PATENT-4,104,134		US-PATENT-4,178,100			US-PATENT-APPL-SN-964754	
		US-PATENT-4,177,325	N80-18364* #	c 35	NASA-CASE-NPO-13606-2		US-PATENT-CLASS-429-101	
N80-16714* #	c 51	NASA-CASE-MSC-16260-1		US-PATENT-APPL-SN-065676			US-PATENT-CLASS-429-105	
		US-PATENT-APPL-SN-876440	N80-18372* #	c 36	NASA-CASE-NPO-14254-1		US-PATENT-CLASS-429-107	
		US-PATENT-CLASS-23-927		US-PATENT-APPL-SN-876432			US-PATENT-CLASS-429-109	
		US-PATENT-CLASS-422-52		US-PATENT-CLASS-330-4			US-PATENT-4,192,910	
		US-PATENT-CLASS-435-34		US-PATENT-CLASS-331-94	N80-20559* #	c 35	NASA-CASE-LAR-12304-1	
		US-PATENT-4,176,007		US-PATENT-CLASS-333-24R			US-PATENT-APPL-SN-928130	
N80-16715* #	c 51	NASA-CASE-MFS-23883-1		US-PATENT-4,187,470			US-PATENT-CLASS-29-25.35	

		US-PATENT-CLASS-310-311		US-PATENT-CLASS-331-65		N80-26388* #	c 24	NASA-CASE-MFS-23626-1
		US-PATENT-CLASS-310-327		US-PATENT-CLASS-340-602				US-PATENT-APPL-SN-941711
		US-PATENT-CLASS-310-334		US-PATENT-CLASS-340-604				US-PATENT-CLASS-156-212
		US-PATENT-CLASS-310-360		US-PATENT-4,197,530				US-PATENT-CLASS-156-213
		US-PATENT-4,195,244		NASA-CASE-MSC-16938-1				US-PATENT-CLASS-156-285
N80-20560* #	c 35	NASA-CASE-FRC-10093-1	N80-23653* #	c 37	US-PATENT-APPL-SN-938582			US-PATENT-CLASS-260-17.2
		US-PATENT-APPL-SN-878539		US-PATENT-CLASS-151-41.76				US-PATENT-CLASS-264-118
		US-PATENT-CLASS-219-85CA		US-PATENT-4,193,435				US-PATENT-CLASS-264-119
		US-PATENT-CLASS-219-85CM	N80-23654* #	c 37	NASA-CASE-NPO-14473-1			US-PATENT-CLASS-264-124
		US-PATENT-CLASS-219-85R		US-PATENT-APPL-SN-938300				US-PATENT-4,204,899
		US-PATENT-CLASS-338-2		US-PATENT-CLASS-137-375		N80-26446* #	c 27	NASA-CASE-MSC-16074-1
		US-PATENT-4,195,279		US-PATENT-CLASS-137-625.4				US-PATENT-APPL-SN-747674
N80-20563* #	c 35	NASA-CASE-NPO-14093-1		US-PATENT-CLASS-251-138				US-PATENT-CLASS-204-159.15
		US-PATENT-APPL-SN-880729		US-PATENT-CLASS-251-86				US-PATENT-CLASS-204-159.19
		US-PATENT-CLASS-356-346		US-PATENT-4,195,666				US-PATENT-CLASS-525-426
		US-PATENT-4,193,693	N80-23655* #	c 37	NASA-CASE-GSC-12318-1			US-PATENT-CLASS-8-DIG.12
N80-20808* #	c 44	NASA-CASE-NPO-14237-1		US-PATENT-APPL-SN-894213				US-PATENT-CLASS-8-DIG.18
		US-PATENT-APPL-SN-897831		US-PATENT-CLASS-219-160				US-PATENT-CLASS-8-115.5
		US-PATENT-CLASS-126-263		US-PATENT-CLASS-219-161				US-PATENT-4,203,723
		US-PATENT-CLASS-149-15		US-PATENT-CLASS-228-212		N80-26599* #	c 33	NASA-CASE-FRC-10113-1
		US-PATENT-CLASS-149-37		US-PATENT-CLASS-228-222				US-PATENT-APPL-SN-885066
		US-PATENT-CLASS-220-429		US-PATENT-CLASS-228-44.1R				US-PATENT-CLASS-324-51
		US-PATENT-4,193,388		US-PATENT-CLASS-269-287				US-PATENT-4,204,154
N80-20810* #	c 44	NASA-CASE-LAR-12205-1		US-PATENT-4,196,840		N80-26635* #	c 35	NASA-CASE-NPO-14372-1
		US-PATENT-APPL-SN-900843	N80-23711* #	c 43	NASA-CASE-MFS-23720-1			US-PATENT-APPL-SN-646333
		US-PATENT-CLASS-126-419		US-PATENT-APPL-SN-848419				US-PATENT-APPL-SN-956529
		US-PATENT-CLASS-126-434		US-PATENT-CLASS-73-12				US-PATENT-CLASS-250-338
		US-PATENT-CLASS-126-437		US-PATENT-CLASS-73-82				US-PATENT-CLASS-250-352
		US-PATENT-CLASS-165-32		US-PATENT-4,195,512				US-PATENT-CLASS-250-353
		US-PATENT-4,192,290	N80-23969* #	c 52	NASA-CASE-FRC-11012-1			US-PATENT-CLASS-356-328
N80-21138* #	c 74	NASA-CASE-LAR-12178-1		US-PATENT-APPL-SN-928137				US-PATENT-4,205,229
		US-PATENT-APPL-SN-953390		US-PATENT-CLASS-128-666		N80-26658* #	c 37	NASA-CASE-LEW-12131-2
		US-PATENT-CLASS-350-25		US-PATENT-CLASS-128-690				US-PATENT-APPL-SN-801290
		US-PATENT-CLASS-350-285		US-PATENT-4,198,988				US-PATENT-APPL-SN-931090
		US-PATENT-CLASS-356-150	N80-24149* #	c 74	NASA-CASE-GSC-12348-1			US-PATENT-CLASS-415-174
		US-PATENT-CLASS-356-152		US-PATENT-APPL-SN-929088				US-PATENT-CLASS-415-196
		US-PATENT-4,189,234		US-PATENT-CLASS-51-277				US-PATENT-4,135,851
N80-21140* #	c 74	NASA-CASE-GSC-12357-1		US-PATENT-CLASS-51-283R		N80-27067* #	c 51	NASA-CASE-MSC-16777-1
		US-PATENT-APPL-SN-943089		US-PATENT-CLASS-65-61				US-PATENT-APPL-SN-893657
		US-PATENT-CLASS-250-277CH		US-PATENT-4,198,788				US-PATENT-CLASS-204-195B
		US-PATENT-CLASS-250-280	N80-24437* #	c 27	NASA-CASE-LEW-13027-1			US-PATENT-CLASS-23-230B
		US-PATENT-CLASS-350-162R		US-PATENT-APPL-SN-958575				US-PATENT-CLASS-422-68
		US-PATENT-CLASS-356-334		US-PATENT-CLASS-427-164				US-PATENT-CLASS-435-289
		US-PATENT-4,192,994		US-PATENT-CLASS-427-38				US-PATENT-CLASS-435-290
N80-21719* #	c 35	NASA-CASE-GSC-12273-1		US-PATENT-CLASS-427-40				US-PATENT-CLASS-435-291
		US-PATENT-APPL-SN-897830		US-PATENT-CLASS-428-421				US-PATENT-CLASS-435-3
		US-PATENT-CLASS-244-165		US-PATENT-CLASS-428-474				US-PATENT-CLASS-435-311
		US-PATENT-CLASS-244-170		US-PATENT-4,199,650				US-PATENT-CLASS-435-316
		US-PATENT-4,193,570	N80-24438* #	c 27	NASA-CASE-MSC-14903-3			US-PATENT-CLASS-435-32
N80-21828* #	c 44	NASA-CASE-MFS-23515-1		US-PATENT-APPL-SN-706424				US-PATENT-CLASS-435-34
		US-PATENT-APPL-SN-880726		US-PATENT-APPL-SN-907479				US-PATENT-CLASS-435-38
		US-PATENT-CLASS-415-101		US-PATENT-CLASS-260-DIG.29				US-PATENT-CLASS-435-39
		US-PATENT-CLASS-415-2		US-PATENT-CLASS-525-326				US-PATENT-4,204,037
		US-PATENT-4,191,505		US-PATENT-CLASS-525-336		N80-27072* #	c 52	NASA-CASE-NPO-14212-1
N80-23383* #	c 25	NASA-CASE-ARC-11154-1		US-PATENT-CLASS-525-340				US-PATENT-APPL-SN-838308
		US-PATENT-APPL-SN-921626		US-PATENT-CLASS-525-374				US-PATENT-CLASS-128-642
		US-PATENT-CLASS-521-146		US-PATENT-CLASS-525-375				US-PATENT-CLASS-128-774
		US-PATENT-CLASS-521-55		US-PATENT-CLASS-526-261				US-PATENT-CLASS-128-782
		US-PATENT-CLASS-521-918		US-PATENT-CLASS-526-275				US-PATENT-CLASS-33-125R
		US-PATENT-CLASS-525-4		US-PATENT-CLASS-526-276				US-PATENT-CLASS-338-2
		US-PATENT-CLASS-55-66		US-PATENT-CLASS-526-278				US-PATENT-CLASS-73-781
		US-PATENT-CLASS-55-67		US-PATENT-CLASS-528-481				US-PATENT-4,204,544
		US-PATENT-CLASS-55-68		US-PATENT-4,200,721		N80-27163* #	c 72	NASA-CASE-NPO-14324-1
		US-PATENT-CLASS-55-72	N80-24510* #	c 32	NASA-CASE-NPO-14524-1			US-PATENT-APPL-SN-940970
		US-PATENT-4,198,792		NASA-CASE-NPO-14527-1				US-PATENT-CLASS-250-427
N80-23419* #	c 26	NASA-CASE-MFS-23816-1		US-PATENT-APPL-SN-957452				US-PATENT-CLASS-313-156
		US-PATENT-APPL-SN-974292		US-PATENT-CLASS-350-294				US-PATENT-CLASS-313-362
		US-PATENT-CLASS-148-32		US-PATENT-CLASS-350-6.5				US-PATENT-CLASS-313-363
		US-PATENT-CLASS-75-135		US-PATENT-CLASS-350-6.6				US-PATENT-4,206,383
		US-PATENT-CLASS-75-138		US-PATENT-CLASS-356-28.5		N80-27185* #	c 74	NASA-CASE-LAR-12251-1
		US-PATENT-CLASS-75-178R		US-PATENT-4,201,468				US-PATENT-APPL-SN-953389
		US-PATENT-4,198,232	N80-24573* #	c 34	NASA-CASE-LEW-12441-2			US-PATENT-CLASS-350-175E
N80-23452* #	c 27	NASA-CASE-ARC-10980-1		US-PATENT-APPL-SN-559846				US-PATENT-CLASS-350-226
		US-PATENT-APPL-SN-694407		US-PATENT-APPL-SN-856462				US-PATENT-4,206,970
		US-PATENT-CLASS-204-171		US-PATENT-CLASS-239-127.1		N80-28300* #	c 02	NASA-CASE-FRC-11024-1
		US-PATENT-CLASS-210-23H		US-PATENT-CLASS-60-267				US-PATENT-APPL-SN-015983
		US-PATENT-CLASS-210-500M		US-PATENT-4,199,937				US-PATENT-CLASS-73-180
		US-PATENT-CLASS-427-245	N80-24741* #	c 44	NASA-CASE-NPO-14635-1			US-PATENT-CLASS-73-182
		US-PATENT-CLASS-427-41		US-PATENT-APPL-SN-008212				US-PATENT-CLASS-73-861.65
		US-PATENT-4,199,448		US-PATENT-CLASS-136-89SG				US-PATENT-CLASS-73-861.66
N80-23471* #	c 28	NASA-CASE-NPO-14109-1		US-PATENT-CLASS-156-DIG.64				US-PATENT-4,212,199
		US-PATENT-APPL-SN-946990		US-PATENT-CLASS-156-605		N80-28492* #	c 26	NASA-CASE-LAR-11821-1
		US-PATENT-CLASS-149-108.4		US-PATENT-CLASS-156-617SP				US-PATENT-APPL-SN-023501
		US-PATENT-CLASS-23-300		US-PATENT-CLASS-252-62.3E				US-PATENT-CLASS-148-131
		US-PATENT-CLASS-23-302A		US-PATENT-4,210,622				US-PATENT-CLASS-266-119
		US-PATENT-CLASS-23-302R	N80-24906* #	c 46	NASA-CASE-NPO-14558-1			US-PATENT-CLASS-266-249
		US-PATENT-CLASS-23-302T		US-PATENT-APPL-SN-945436				US-PATENT-CLASS-266-274
		US-PATENT-4,198,209		US-PATENT-CLASS-73-155				US-PATENT-4,212,690
N80-23524* #	c 32	NASA-CASE-NPO-14519-1		US-PATENT-4,196,619		N80-28536* #	c 28	NASA-CASE-NPO-14477-1
		US-PATENT-APPL-SN-008207	N80-26298* #	c 07	NASA-CASE-ARC-10814-2			US-PATENT-APPL-SN-951830
		US-PATENT-CLASS-343-786		US-PATENT-APPL-SN-684045				US-PATENT-CLASS-149-19.2
		US-PATENT-CLASS-343-895		US-PATENT-APPL-SN-831632				US-PATENT-CLASS-149-19.9
		US-PATENT-4,199,764		US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-149-20
N80-23559* #	c 33	NASA-CASE-NPO-13804-1		US-PATENT-CLASS-60-733				US-PATENT-4,210,474
		US-PATENT-APPL-SN-766999		US-PATENT-CLASS-60-746		N80-28578* #	c 32	NASA-CASE-GSC-12365-1
		US-PATENT-CLASS-310-319		US-PATENT-4,204,402				

		US-PATENT-APPL-SN-039031			US-PATENT-CLASS-427-44			US-PATENT-CLASS-428-413
		US-PATENT-CLASS-343-100SA			US-PATENT-CLASS-428-500			US-PATENT-CLASS-428-480
		US-PATENT-CLASS-343-844			US-PATENT-CLASS-429-139			US-PATENT-CLASS-428-902
		US-PATENT-CLASS-343-854			US-PATENT-4,218,280			US-PATENT-4,229,473
		US-PATENT-4,213,131			NASA-CASE-GSC-12191-1			NASA-CASE-NPO-14143-1
N80-28686* #	c 35	NASA-CASE-LAR-11370-1	N80-32583* #	c 31	US-PATENT-APPL-SN-009886	N81-14015* #	c 25	US-PATENT-APPL-SN-938297
		US-PATENT-APPL-SN-940689			US-PATENT-CLASS-165-16			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-250-457			US-PATENT-CLASS-236-13			US-PATENT-CLASS-356-437
		US-PATENT-CLASS-250-491			US-PATENT-CLASS-236-44C			US-PATENT-4,234,258
		US-PATENT-CLASS-250-513			US-PATENT-CLASS-236-49	N81-14016* #	c 25	NASA-CASE-ARC-11241-1
		US-PATENT-4,213,051			US-PATENT-4,210,278			US-PATENT-APPL-SN-037066
N80-28687* #	c 35	NASA-CASE-LAR-12285-1	N80-32584* #	c 31	NASA-CASE-NPO-14191-1			US-PATENT-CLASS-260-33.8F
		US-PATENT-APPL-SN-929087			US-PATENT-APPL-SN-830846			US-PATENT-CLASS-528-362
		US-PATENT-CLASS-356-244			US-PATENT-CLASS-181-102			US-PATENT-CLASS-528-401
		US-PATENT-CLASS-356-369			US-PATENT-CLASS-367-27			US-PATENT-CLASS-528-422
		US-PATENT-4,210,401			US-PATENT-CLASS-367-36			US-PATENT-4,234,715
N80-28711* #	c 37	NASA-CASE-LEW-12119-1			US-PATENT-CLASS-367-57	N81-14076* #	c 27	NASA-CASE-NPO-14001-1
		US-PATENT-APPL-SN-672219			US-PATENT-4,214,226			US-PATENT-APPL-SN-771245
		US-PATENT-CLASS-277-153	N80-32604* #	c 32	NASA-CASE-MS-18334-1			US-PATENT-CLASS-210-24R
		US-PATENT-CLASS-277-193			US-PATENT-APPL-SN-051270			US-PATENT-CLASS-260-17A
		US-PATENT-CLASS-277-224			US-PATENT-CLASS-343-700MS			US-PATENT-CLASS-260-2.1E
		US-PATENT-4,212,477			US-PATENT-CLASS-343-830			US-PATENT-CLASS-260-858
N80-29539* #	c 32	NASA-CASE-LAR-11745-1			US-PATENT-4,218,682			US-PATENT-CLASS-260-886
		US-PATENT-APPL-SN-799025	N80-32605* #	c 32	NASA-CASE-NPO-14253-1			US-PATENT-CLASS-260-8900
		US-PATENT-CLASS-343-786			NASA-CASE-NPO-14640-1			US-PATENT-CLASS-260-895
		US-PATENT-4,089,004			US-PATENT-APPL-SN-938293			US-PATENT-CLASS-260-898
N80-29583* #	c 33	NASA-CASE-FRC-11055-1			US-PATENT-CLASS-333-12			US-PATENT-CLASS-260-901
		US-PATENT-APPL-SN-172098			US-PATENT-CLASS-333-252			US-PATENT-CLASS-521-27
N80-29703* #	c 37	NASA-CASE-NPO-14406-1			US-PATENT-CLASS-333-995			US-PATENT-CLASS-521-32
		US-PATENT-APPL-SN-951828			US-PATENT-4,215,327			US-PATENT-CLASS-521-62
		US-PATENT-CLASS-125-21	N80-32650* #	c 33	NASA-CASE-NPO-14424-1			US-PATENT-4,119,581
		US-PATENT-CLASS-83-820			NASA-CASE-NPO-14430-1			NASA-CASE-MS-12631-3
		US-PATENT-4,191,159			US-PATENT-APPL-SN-918534	N81-14077* #	c 27	US-PATENT-APPL-SN-006952
N80-29834* #	c 44	NASA-CASE-LAR-11551-1			US-PATENT-CLASS-324-62			US-PATENT-APPL-SN-568541
		US-PATENT-APPL-SN-883090			US-PATENT-CLASS-324-64			US-PATENT-APPL-SN-785279
		US-PATENT-CLASS-290-53			US-PATENT-4,218,650			US-PATENT-CLASS-156-154
		US-PATENT-CLASS-310-30	N80-32716* #	c 37	NASA-CASE-MFS-23777-1			US-PATENT-CLASS-156-160
		US-PATENT-4,191,893			US-PATENT-APPL-SN-931217			US-PATENT-CLASS-156-163
N80-29835* #	c 44	NASA-CASE-NPO-13786-1			US-PATENT-CLASS-318-15			US-PATENT-CLASS-156-212
		US-PATENT-APPL-SN-696374			US-PATENT-CLASS-74-425			US-PATENT-CLASS-156-267
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-74-661			US-PATENT-CLASS-156-295
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-74-665C			US-PATENT-CLASS-156-323
		US-PATENT-CLASS-357-52			US-PATENT-4,215,592			US-PATENT-CLASS-156-331
		US-PATENT-CLASS-357-91	N80-32717* #	c 37	NASA-CASE-GSC-12289-1			US-PATENT-4,032,089
		US-PATENT-4,090,213			US-PATENT-APPL-SN-943086			US-PATENT-4,225,372
N80-31790* #	c 37	NASA-CASE-LEW-12274-1			US-PATENT-CLASS-198-847	N81-14078* #	c 27	NASA-CASE-LAR-12054-2
		US-PATENT-APPL-SN-950876			US-PATENT-CLASS-198-848			US-PATENT-APPL-SN-011737
		US-PATENT-CLASS-417-383			US-PATENT-CLASS-474-205			US-PATENT-APPL-SN-839963
		US-PATENT-CLASS-60-520			US-PATENT-4,215,590			US-PATENT-CLASS-264-137
		US-PATENT-4,215,548	N80-33081* #	c 52	NASA-CASE-ARC-11258-1			US-PATENT-CLASS-427-385.5
N80-32244* #	c 76	NASA-CASE-NPO-14298-1			US-PATENT-APPL-SN-185865			US-PATENT-CLASS-427-429
		US-PATENT-APPL-SN-938579	N80-33186* #	c 72	NASA-CASE-LEW-12940-1			US-PATENT-CLASS-428-473.5
		US-PATENT-CLASS-156-DIG.96			US-PATENT-APPL-SN-953391			US-PATENT-4,166,170
		US-PATENT-CLASS-422-246			US-PATENT-CLASS-313-231.4			US-PATENT-4,233,258
		US-PATENT-4,216,186			US-PATENT-CLASS-313-362	N81-14103* #	c 28	NASA-CASE-LEW-12081-3
N80-32245* #	c 76	NASA-CASE-NPO-14295-1			US-PATENT-4,218,633			US-PATENT-APPL-SN-009887
		US-PATENT-APPL-SN-901055	N80-33210* #	c 74	NASA-CASE-MS-18255-1			US-PATENT-APPL-SN-676432
		US-PATENT-CLASS-156-DIG.64			US-PATENT-APPL-SN-025163			US-PATENT-APPL-SN-837794
		US-PATENT-CLASS-156-DIG.88			US-PATENT-CLASS-250-347			US-PATENT-CLASS-149-1
		US-PATENT-CLASS-156-601			US-PATENT-CLASS-250-352			US-PATENT-CLASS-156-344
		US-PATENT-CLASS-156-617SP			US-PATENT-CLASS-250-353			US-PATENT-CLASS-423-648R
		US-PATENT-4,217,165			US-PATENT-CLASS-350-55			US-PATENT-CLASS-44-7R
N80-32359* #	c 04	NASA-CASE-NPO-14173-1			US-PATENT-CLASS-356-72			US-PATENT-CLASS-55-2
		US-PATENT-APPL-SN-938581			US-PATENT-4,215,273			US-PATENT-CLASS-62-12
		US-PATENT-CLASS-343-112R	N80-33482* #	c 24	NASA-CASE-LEW-11930-3			US-PATENT-CLASS-62-18
		US-PATENT-4,215,345			US-PATENT-APPL-SN-513611			US-PATENT-CLASS-62-40
N80-32392* #	c 07	NASA-CASE-ARC-10977-1			US-PATENT-APPL-SN-616528			US-PATENT-CLASS-62-47
		US-PATENT-APPL-SN-023436			US-PATENT-APPL-SN-764245			US-PATENT-4,077,788
		US-PATENT-CLASS-239-127.3			US-PATENT-CLASS-75-200			US-PATENT-4,193,827
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-75-222			US-PATENT-4,229,196
		US-PATENT-CLASS-60-264			US-PATENT-4,214,905	N81-14137* #	c 31	NASA-CASE-KSC-11064-1
		US-PATENT-4,214,703	N81-12330* #	c 33	NASA-CASE-MFS-25535-1			US-PATENT-APPL-SN-897840
N80-32484* #	c 26	NASA-CASE-LEW-12542-3			US-PATENT-APPL-SN-199765			US-PATENT-CLASS-169-62
		US-PATENT-APPL-SN-007083	N81-12542* #	c 44	NASA-CASE-LEW-12806-2			US-PATENT-CLASS-169-70
		US-PATENT-APPL-SN-803822			US-PATENT-APPL-SN-065676			US-PATENT-4,219,084
		US-PATENT-CLASS-75-124			US-PATENT-APPL-SN-915050	N81-14185* #	c 32	NASA-CASE-NPO-14536-1
		US-PATENT-4,214,902			US-PATENT-CLASS-136-249			US-PATENT-APPL-SN-974471
N80-32514* #	c 27	NASA-CASE-NPO-13137-1			US-PATENT-CLASS-136-291			US-PATENT-CLASS-343-100TD
		US-PATENT-APPL-SN-332123			US-PATENT-CLASS-363-147			US-PATENT-4,233,606
		US-PATENT-APPL-SN-374810			US-PATENT-CLASS-363-27	N81-14186* #	c 32	NASA-CASE-NPO-14749-1
		US-PATENT-CLASS-568-852			US-PATENT-CLASS-363-60			US-PATENT-APPL-SN-078521
		US-PATENT-CLASS-568-861			US-PATENT-4,217,633			US-PATENT-CLASS-375-107
		US-PATENT-4,118,427	N81-13999* #	c 24	NASA-CASE-ARC-11174-1			US-PATENT-CLASS-455-51
N80-32515* #	c 27	NASA-CASE-NPO-13899-1			US-PATENT-APPL-SN-929086			US-PATENT-CLASS-455-619
		US-PATENT-APPL-SN-761252			US-PATENT-CLASS-260-17.2			US-PATENT-CLASS-455-71
		US-PATENT-APPL-SN-933186			US-PATENT-CLASS-428-114			US-PATENT-4,234,971
		US-PATENT-CLASS-260-346.3			US-PATENT-CLASS-428-528	N81-14187* #	c 32	NASA-CASE-MS-16800-1
		US-PATENT-4,196,129			US-PATENT-CLASS-428-541			US-PATENT-APPL-SN-953313
N80-32516* #	c 27	NASA-CASE-LEW-13103-1			US-PATENT-CLASS-428-921			US-PATENT-CLASS-343-727
		US-PATENT-APPL-SN-971596			US-PATENT-4,209,561			US-PATENT-CLASS-343-789
		US-PATENT-CLASS-156-272	N81-14000* #	c 24	NASA-CASE-LAR-12065-1			US-PATENT-CLASS-343-797
		US-PATENT-CLASS-156-292			US-PATENT-APPL-SN-889671			US-PATENT-4,218,685
		US-PATENT-CLASS-204-159.11			US-PATENT-CLASS-156-330	N81-14220* #	c 33	NASA-CASE-NPO-14163-1
		US-PATENT-CLASS-204-159.14			US-PATENT-CLASS-428-113			US-PATENT-APPL-SN-878541
		US-PATENT-CLASS-264-212			US-PATENT-CLASS-428-114			US-PATENT-CLASS-363-56
		US-PATENT-CLASS-264-22			US-PATENT-CLASS-428-140			US-PATENT-CLASS-363-71

		US-PATENT-CLASS-363-78 US-PATENT-4,222,098				US-PATENT-CLASS-149-108.4 US-PATENT-CLASS-23-293R US-PATENT-CLASS-252-364 US-PATENT-CLASS-260-96D US-PATENT-CLASS-423-1 US-PATENT-CLASS-423-131 US-PATENT-CLASS-423-658.5 US-PATENT-CLASS-525-384 US-PATENT-CLASS-526-914 US-PATENT-CLASS-75-25 US-PATENT-4,229,182				US-PATENT-APPL-SN-070771 US-PATENT-CLASS-260-326N US-PATENT-CLASS-260-326S US-PATENT-CLASS-260-37EP US-PATENT-CLASS-528-118 US-PATENT-CLASS-528-322 US-PATENT-CLASS-538-117 US-PATENT-4,244,857
N81-14221* #	c 33	NASA-CASE-GSC-12411-1 US-PATENT-APPL-SN-965367 US-PATENT-CLASS-340-309.4 US-PATENT-CLASS-340-310A US-PATENT-CLASS-340-310R US-PATENT-CLASS-340-870.24 US-PATENT-CLASS-368-47 US-PATENT-CLASS-370-85 US-PATENT-4,228,422		N81-15154* #	c 31	NASA-CASE-NPO-13758-2 US-PATENT-APPL-SN-623389 US-PATENT-APPL-SN-727444 US-PATENT-CLASS-110-218 US-PATENT-CLASS-110-229 US-PATENT-CLASS-110-232 US-PATENT-CLASS-110-343 US-PATENT-CLASS-110-347 US-PATENT-CLASS-202-118 US-PATENT-CLASS-264-23 US-PATENT-CLASS-425-378R US-PATENT-4,206,713		N81-17261* #	c 27	NASA-CASE-NPO-14315-1 US-PATENT-APPL-SN-900659 US-PATENT-CLASS-201-10 US-PATENT-CLASS-201-25 US-PATENT-CLASS-201-8 US-PATENT-CLASS-44-50 US-PATENT-CLASS-44-62 US-PATENT-4,246,001
N81-14287* #	c 35	NASA-CASE-NPO-14513-1 US-PATENT-APPL-SN-025162 US-PATENT-CLASS-165-105 US-PATENT-CLASS-62-514R US-PATENT-4,218,892		N81-15179* #	c 32	NASA-CASE-MS-C-18035-1 US-PATENT-APPL-SN-041142 US-PATENT-CLASS-375-1 US-PATENT-CLASS-375-115 US-PATENT-CLASS-375-58 US-PATENT-4,221,005		N81-17262* #	c 27	NASA-CASE-ARC-11253-1 US-PATENT-APPL-SN-028301 US-PATENT-CLASS-528-310 US-PATENT-CLASS-528-362 US-PATENT-CLASS-528-401 US-PATENT-CLASS-528-422 US-PATENT-4,245,085
N81-14317* #	c 37	NASA-CASE-MS-C-16973-1 US-PATENT-APPL-SN-969756 US-PATENT-CLASS-150-11 US-PATENT-CLASS-156-294 US-PATENT-CLASS-52-232 US-PATENT-CLASS-52-743 US-PATENT-4,235,060		N81-15192* #	c 33	NASA-CASE-NPO-14444-1 US-PATENT-APPL-SN-017890 US-PATENT-CLASS-332-22 US-PATENT-CLASS-332-23R US-PATENT-CLASS-375-54 US-PATENT-CLASS-375-67 US-PATENT-CLASS-455-102 US-PATENT-4,216,542		N81-17348* #	c 33	NASA-CASE-MFS-23845-1 US-PATENT-APPL-SN-938298 US-PATENT-CLASS-307-233R US-PATENT-CLASS-307-306 US-PATENT-CLASS-333-204 US-PATENT-4,227,096
N81-14318* #	c 37	NASA-CASE-NPO-14220-1 US-PATENT-APPL-SN-907421 US-PATENT-CLASS-60-518 US-PATENT-CLASS-74-417 US-PATENT-4,228,656		N81-15194* #	c 33	NASA-CASE-NPO-14998-1 US-PATENT-APPL-SN-195547 US-PATENT-CLASS-375-115 US-PATENT-CLASS-375-58 US-PATENT-4,221,005		N81-17349* #	c 33	NASA-CASE-MS-C-16747-1 US-PATENT-APPL-SN-974475 US-PATENT-CLASS-328-134 US-PATENT-CLASS-328-37 US-PATENT-CLASS-328-55 US-PATENT-CLASS-331-48 US-PATENT-4,241,308
N81-14319* #	c 37	NASA-CASE-LAR-11855-1 US-PATENT-APPL-SN-953314 US-PATENT-CLASS-407-117 US-PATENT-CLASS-407-85 US-PATENT-CLASS-408-1R US-PATENT-CLASS-82-1.2 US-PATENT-CLASS-82-1C US-PATENT-CLASS-82-36R US-PATENT-4,218,941		N81-15363* #	c 37	NASA-CASE-MS-C-18134-1 US-PATENT-APPL-SN-974472 US-PATENT-CLASS-277-181 US-PATENT-CLASS-277-229 US-PATENT-4,219,203		N81-17432* #	c 37	NASA-CASE-NPO-14388-1 US-PATENT-APPL-SN-008208 US-PATENT-CLASS-60-518 US-PATENT-CLASS-74-417 US-PATENT-4,240,256
N81-14320* #	c 37	NASA-CASE-GSC-12429-1 US-PATENT-APPL-SN-009888 US-PATENT-CLASS-244-161 US-PATENT-CLASS-294-106 US-PATENT-CLASS-414-1 US-PATENT-4,219,171		N81-15364* #	c 37	NASA-CASE-NPO-14170-1 US-PATENT-APPL-SN-860404 US-PATENT-CLASS-188-134 US-PATENT-CLASS-188-180 US-PATENT-CLASS-188-184 US-PATENT-CLASS-244-173 US-PATENT-4,219,107		N81-17433* #	c 37	NASA-CASE-ARC-11251-1 US-PATENT-APPL-SN-057465 US-PATENT-CLASS-128-DIG.20 US-PATENT-CLASS-137-549 US-PATENT-CLASS-137-886 US-PATENT-CLASS-137-887 US-PATENT-CLASS-251-216 US-PATENT-CLASS-251-339 US-PATENT-4,239,057
N81-14389* #	c 44	NASA-CASE-NPO-14416-1 US-PATENT-APPL-SN-014664 US-PATENT-CLASS-29-DIG.1 US-PATENT-CLASS-29-832 US-PATENT-4,219,926		N81-15706* #	c 60	NASA-CASE-NPO-14162-1 NASA-CASE-NPO-14167-1 NASA-CASE-NPO-14169-1 US-PATENT-APPL-SN-893903 US-PATENT-CLASS-307-219 US-PATENT-CLASS-307-225R US-PATENT-CLASS-307-269 US-PATENT-CLASS-307-291 US-PATENT-CLASS-328-192 US-PATENT-CLASS-328-48 US-PATENT-CLASS-328-71 US-PATENT-4,213,064		N81-17499* #	c 43	NASA-CASE-FRC-11013-1 US-PATENT-APPL-SN-043912 US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-49 US-PATENT-4,240,601
N81-14605* #	c 51	NASA-CASE-ARC-11114-1 US-PATENT-APPL-SN-951422 US-PATENT-CLASS-128-DIG.12 US-PATENT-CLASS-128-DIG.16 US-PATENT-CLASS-128-DIG.26 US-PATENT-CLASS-128-DIG.6 US-PATENT-CLASS-128-DIG.9 US-PATENT-CLASS-128-204.18 US-PATENT-CLASS-128-207.14 US-PATENT-CLASS-128-207.28 US-PATENT-CLASS-128-236 US-PATENT-4,212,297		N81-15767* #	c 71	NASA-CASE-MFS-205050-1 US-PATENT-APPL-SN-057466 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-505 US-PATENT-4,218,921		N81-17518* #	c 44	NASA-CASE-NPO-14619-1 US-PATENT-APPL-SN-027559 US-PATENT-CLASS-126-419 US-PATENT-CLASS-60-524 US-PATENT-CLASS-60-641 US-PATENT-4,236,383
N81-14612* #	c 52	NASA-CASE-ARC-11117-1 US-PATENT-APPL-SN-003693 US-PATENT-CLASS-128-642 US-PATENT-4,219,027		N81-16209* #	c 26	NASA-CASE-LEW-23169-2 US-PATENT-APPL-SN-191746 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-178R US-PATENT-4,240,290		N81-17886* #	c 74	NASA-CASE-NPO-14219-1 US-PATENT-APPL-SN-888432 US-PATENT-CLASS-350-301 US-PATENT-CLASS-354-118 US-PATENT-CLASS-362-11 US-PATENT-CLASS-362-241 US-PATENT-4,213,684
N81-14613* #	c 52	NASA-CASE-ARC-11118-2 US-PATENT-APPL-SN-850504 US-PATENT-APPL-SN-974476 US-PATENT-CLASS-424-274 US-PATENT-4,230,717		N81-17057* #	c 06	NASA-CASE-FRC-11029-1 US-PATENT-APPL-SN-164617 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-178R US-PATENT-4,240,290		N81-17887* #	c 74	NASA-CASE-NPO-14657-1 US-PATENT-APPL-SN-008211 US-PATENT-CLASS-356-432 US-PATENT-CLASS-73-15R US-PATENT-4,243,327
N81-14968* #	c 02	NASA-CASE-LAR-12326-1 US-PATENT-APPL-SN-019541 US-PATENT-CLASS-102-56R US-PATENT-CLASS-102-92.1 US-PATENT-CLASS-244-119 US-PATENT-CLASS-244-130 US-PATENT-4,225,102		N81-17170* #	c 24	NASA-CASE-LEW-12493-1 US-PATENT-APPL-SN-893857 US-PATENT-CLASS-156-292 US-PATENT-CLASS-228-118 US-PATENT-CLASS-228-170 US-PATENT-CLASS-228-174 US-PATENT-CLASS-228-190 US-PATENT-4,211,354		N81-17888* #	c 74	NASA-CASE-NPO-14502-1 US-PATENT-APPL-SN-965368 US-PATENT-CLASS-356-345 US-PATENT-CLASS-356-352 US-PATENT-CLASS-356-358 US-PATENT-4,243,323
N81-14999* #	c 07	NASA-CASE-LEW-13201-1 US-PATENT-APPL-SN-038980 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-181-214 US-PATENT-4,220,171		N81-17187* #	c 25	NASA-CASE-NPO-13530-1 US-PATENT-CLASS-210-500M US-PATENT-CLASS-260-2.1 US-PATENT-CLASS-260-2.2R US-PATENT-4,014,798		N81-19016* #	c 02	NASA-CASE-LAR-12750-1 US-PATENT-APPL-SN-210491
N81-15104* #	c 27	NASA-CASE-NPO-10830-1 US-PATENT-APPL-SN-825489 US-PATENT-CLASS-117-6 US-PATENT-CLASS-138.8R US-PATENT-CLASS-260-33.6UB US-PATENT-CLASS-33.8UB US-PATENT-CLASS-37N US-PATENT-CLASS-41R US-PATENT-CLASS-77.5AQ US-PATENT-CLASS-77.5CH US-PATENT-CLASS-859R US-PATENT-CLASS-94.9N US-PATENT-3,655,814		N81-17259* #	c 27	NASA-CASE-ARC-11248-1 US-PATENT-APPL-SN-028300 US-PATENT-CLASS-528-362 US-PATENT-CLASS-528-401 US-PATENT-CLASS-528-422 US-PATENT-CLASS-528-423 US-PATENT-4,242,498		N81-19087* #	c 05	NASA-CASE-LAR-11797-1 US-PATENT-APPL-SN-969755 US-PATENT-CLASS-244-17.25 US-PATENT-CLASS-416-114 US-PATENT-CLASS-416-500 US-PATENT-CLASS-74-519 US-PATENT-4,245,956
N81-15119* #	c 28	NASA-CASE-NPO-14110-1 US-PATENT-APPL-SN-947000		N81-17260* #	c 27	NASA-CASE-LEW-13226-1		N81-19115* #	c 07	NASA-CASE-LEW-12907-2 US-PATENT-APPL-SN-752050 US-PATENT-APPL-SN-909235 US-PATENT-CLASS-364-106 US-PATENT-CLASS-364-431 US-PATENT-CLASS-60-39.24 US-PATENT-4,249,238
								N81-19116* #	c 07	NASA-CASE-LEW-12594-2

		US-PATENT-APPL-SN-741056			US-PATENT-CLASS-340-146.3S			US-PATENT-APPL-SN-856462
		US-PATENT-APPL-SN-909608			US-PATENT-CLASS-340-146.3Y			US-PATENT-CLASS-239-127.1
		US-PATENT-CLASS-60-226R			US-PATENT-3,845,466			US-PATENT-CLASS-60-204
		US-PATENT-CLASS-60-236	N81-19898* #	c 74	NASA-CASE-NPO-12087-1			US-PATENT-CLASS-60-267
		US-PATENT-CLASS-60-238			US-PATENT-APPL-SN-095217			US-PATENT-4,199,937
		US-PATENT-CLASS-60-239			US-PATENT-CLASS-250-83.6R			US-PATENT-4,245,469
		US-PATENT-4,242,864			US-PATENT-3,704,284	N81-24520* #	c 44	NASA-CASE-MFS-23999-1
N81-19130* #	c 08	NASA-CASE-LAR-11970-2	N81-20352* #	c 33	NASA-CASE-NPO-13970-1			US-PATENT-APPL-SN-060435
		US-PATENT-APPL-SN-034104			US-PATENT-APPL-SN-023484			US-PATENT-CLASS-250-203R
		US-PATENT-APPL-SN-727503			US-PATENT-CLASS-318-138			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-244-12.5			US-PATENT-CLASS-318-254			US-PATENT-4,262,195
		US-PATENT-CLASS-244-52			US-PATENT-CLASS-318-439	N81-24521* #	c 44	NASA-CASE-LEW-12918-1
		US-PATENT-CLASS-244-87			US-PATENT-4,249,116			US-PATENT-APPL-SN-134855
		US-PATENT-4,236,684	N81-20703* #	c 52	NASA-CASE-NPO-14329-1			US-PATENT-CLASS-429-120
N81-19242* #	c 25	NASA-CASE-MFS-25000-1			US-PATENT-APPL-SN-044432			US-PATENT-CLASS-429-160
		US-PATENT-APPL-SN-974474			US-PATENT-CLASS-128-642			US-PATENT-CLASS-429-164
		US-PATENT-CLASS-260-29.6RB			US-PATENT-CLASS-128-774			US-PATENT-CLASS-429-94
		US-PATENT-CLASS-526-201			US-PATENT-CLASS-73-141A			US-PATENT-4,262,064
		US-PATENT-CLASS-526-88			US-PATENT-4,249,417	N81-24711* #	c 52	NASA-CASE-MSK-16433-1
		US-PATENT-4,247,434	N81-21047* #	c 04	NASA-CASE-ARC-11257-1			US-PATENT-APPL-SN-910992
N81-19244* #	c 25	NASA-CASE-NPO-13309-1			US-PATENT-APPL-SN-078611			US-PATENT-CLASS-128-295
		US-PATENT-APPL-SN-363130			US-PATENT-CLASS-73-178R			US-PATENT-CLASS-128-781
		US-PATENT-CLASS-210-24			US-PATENT-CLASS-73-490			US-PATENT-CLASS-4-144.3
		US-PATENT-CLASS-260-2.1E			US-PATENT-CLASS-73-504			US-PATENT-4,246,901
		US-PATENT-CLASS-260-2.2R			US-PATENT-4,244,215	N81-24724* #	c 54	NASA-CASE-KSC-11085-1
		US-PATENT-CLASS-264-41	N81-22280* #	c 33	NASA-CASE-MFS-24368-3			US-PATENT-APPL-SN-046739
		US-PATENT-3,944,485			US-PATENT-APPL-SN-243683			US-PATENT-CLASS-261-79A
N81-19296* #	c 27	NASA-CASE-LEW-12933-1	N81-22344* #	c 36	NASA-CASE-GSC-12609-1			US-PATENT-CLASS-422-109
		US-PATENT-APPL-SN-027557			US-PATENT-APPL-SN-218586			US-PATENT-CLASS-422-27
		US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37	NASA-CASE-LEW-12445-1			US-PATENT-CLASS-422-3
		US-PATENT-CLASS-427-221			US-PATENT-APPL-SN-238887			US-PATENT-CLASS-422-30
		US-PATENT-CLASS-427-379	N81-24106* #	c 08	NASA-CASE-LAR-12268-1			US-PATENT-CLASS-422-34
		US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-015996			US-PATENT-4,250,143
		US-PATENT-4,244,853			US-PATENT-CLASS-244-181	N81-24779* #	c 62	NASA-CASE-KSC-11048-1
N81-19343* #	c 31	NASA-CASE-GSC-12513-1			US-PATENT-CLASS-244-195			US-PATENT-APPL-SN-023437
		US-PATENT-APPL-SN-053571			US-PATENT-CLASS-318-584			US-PATENT-CLASS-364-200
		US-PATENT-CLASS-109-49.5			US-PATENT-CLASS-364-434			US-PATENT-4,254,464
		US-PATENT-CLASS-109-58.5			US-PATENT-4,261,537	N81-24900* #	c 74	NASA-CASE-GSC-12528-1
		US-PATENT-CLASS-220-82R	N81-24256* #	c 27	NASA-CASE-ARC-11253-3			US-PATENT-APPL-SN-111439
		US-PATENT-CLASS-220-89A			US-PATENT-APPL-SN-028301			US-PATENT-CLASS-250-368
		US-PATENT-CLASS-49-171			US-PATENT-APPL-SN-145283			US-PATENT-CLASS-250-483
		US-PATENT-4,245,566			US-PATENT-CLASS-260-465.5R			US-PATENT-4,262,206
N81-19389* #	c 33	NASA-CASE-NPO-14297-1			US-PATENT-CLASS-528-310	N81-24907* #	c 74	NASA-CASE-MSK-18674-1
		US-PATENT-APPL-SN-938299			US-PATENT-CLASS-564-229			US-PATENT-APPL-SN-235363
		US-PATENT-CLASS-156-DIG.96			US-PATENT-4,269,787	N81-25159* #	c 25	NASA-CASE-NPO-15102-1
		US-PATENT-CLASS-156-608	N81-24257* #	c 27	NASA-CASE-LEW-13135-2			US-PATENT-APPL-SN-154726
		US-PATENT-CLASS-219-10.49R			US-PATENT-APPL-SN-113014			US-PATENT-CLASS-250-350
		US-PATENT-CLASS-219-10.67			US-PATENT-APPL-SN-971475			US-PATENT-CLASS-356-432
		US-PATENT-CLASS-422-246			US-PATENT-CLASS-264-104			US-PATENT-4,253,769
		US-PATENT-CLASS-422-249			US-PATENT-CLASS-264-105	N81-25188* #	c 26	NASA-CASE-LEW-13088-1
		US-PATENT-CLASS-432-264			US-PATENT-CLASS-429-139			US-PATENT-APPL-SN-089779
		US-PATENT-4,242,553			US-PATENT-CLASS-429-249			US-PATENT-CLASS-428-471
N81-19392* #	c 33	NASA-CASE-GSC-12360-1			US-PATENT-CLASS-429-253			US-PATENT-CLASS-428-632
		US-PATENT-APPL-SN-041164			US-PATENT-CLASS-429-27			US-PATENT-CLASS-428-678
		US-PATENT-CLASS-363-101			US-PATENT-CLASS-429-28			US-PATENT-CLASS-428-679
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-525-61			US-PATENT-CLASS-428-680
		US-PATENT-4,245,286	N81-24258* #	c 27	US-PATENT-4,262,067			US-PATENT-4,255,495
N81-19393* #	c 33	NASA-CASE-NPO-14505-1			NASA-CASE-NPO-10424-1	N81-25209* #	c 27	NASA-CASE-MSK-18107-1
		US-PATENT-APPL-SN-956166			US-PATENT-APPL-SN-692636			US-PATENT-APPL-SN-956168
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-260-37			US-PATENT-CLASS-430-271
		US-PATENT-CLASS-363-36			US-PATENT-3,651,008			US-PATENT-CLASS-430-325
		US-PATENT-CLASS-363-40	N81-24280* #	c 28	NASA-CASE-MSK-16394-1			US-PATENT-CLASS-430-329
		US-PATENT-CLASS-363-47			US-PATENT-APPL-SN-161255			US-PATENT-CLASS-430-330
		US-PATENT-4,245,288			US-PATENT-CLASS-204-129			US-PATENT-4,262,080
N81-19426* #	c 35	NASA-CASE-MFS-23923-1			US-PATENT-CLASS-204-252	N81-25258* #	c 31	NASA-CASE-LAR-12095-1
		US-PATENT-APPL-SN-053569			US-PATENT-CLASS-204-266			US-PATENT-APPL-SN-811401
		US-PATENT-CLASS-73-190R			US-PATENT-CLASS-204-290F			US-PATENT-CLASS-244-158R
		US-PATENT-4,248,083			US-PATENT-CLASS-204-290R			US-PATENT-CLASS-403-171
N81-19427* #	c 35	NASA-CASE-MSK-16370-1			US-PATENT-CLASS-204-291			US-PATENT-CLASS-428-902
		US-PATENT-APPL-SN-061556			US-PATENT-4,263,112			US-PATENT-CLASS-52-309.1
		US-PATENT-CLASS-329-107	N81-24338* #	c 33	NASA-CASE-NPO-14617-1			US-PATENT-CLASS-52-648
		US-PATENT-CLASS-329-50			US-PATENT-APPL-SN-051269			US-PATENT-CLASS-52-726
		US-PATENT-CLASS-375-1			US-PATENT-CLASS-330-8			US-PATENT-4,259,821
		US-PATENT-CLASS-375-104			US-PATENT-4,262,259	N81-25259* #	c 31	NASA-CASE-LAR-12077-1
		US-PATENT-CLASS-375-34	N81-24422* #	c 36	NASA-CASE-LAR-12177-1			US-PATENT-APPL-SN-014663
		US-PATENT-CLASS-375-99			US-PATENT-APPL-SN-027558			US-PATENT-CLASS-52-645
		US-PATENT-4,241,312			US-PATENT-CLASS-356-28.5			US-PATENT-4,259,825
N81-19455* #	c 37	NASA-CASE-LEW-12982-1			US-PATENT-CLASS-356-356	N81-25278* #	c 32	NASA-CASE-NPO-14588-1
		US-PATENT-APPL-SN-929084			US-PATENT-CLASS-356-358			US-PATENT-APPL-SN-008209
		US-PATENT-CLASS-204-192E			US-PATENT-4,255,048			US-PATENT-CLASS-343-755
		US-PATENT-CLASS-228-116	N81-24442* #	c 37	NASA-CASE-LEW-12991-1			US-PATENT-CLASS-343-772
		US-PATENT-CLASS-228-205			US-PATENT-APPL-SN-961832			US-PATENT-CLASS-343-781R
		US-PATENT-4,245,768			US-PATENT-CLASS-277-96			US-PATENT-CLASS-343-786
N81-19558* #	c 44	NASA-CASE-NPO-14670-1			US-PATENT-4,260,166			US-PATENT-4,258,366
		US-PATENT-APPL-SN-043941	N81-24443* #	c 37	NASA-CASE-LAR-11695-2	N81-25299* #	c 33	NASA-CASE-GSC-12399-1
		US-PATENT-CLASS-136-258			US-PATENT-APPL-SN-103836			US-PATENT-APPL-SN-961831
		US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-893865			US-PATENT-CLASS-70-58
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-152-330RF			US-PATENT-4,252,007
		US-PATENT-CLASS-357-59			US-PATENT-CLASS-152-353G	N81-25370* #	c 37	NASA-CASE-NPO-14221-1
		US-PATENT-CLASS-357-63			US-PATENT-CLASS-152-353R			US-PATENT-APPL-SN-907431
		US-PATENT-4,249,957			US-PATENT-CLASS-152-379.4			US-PATENT-CLASS-60-517
N81-19896* #	c 74	NASA-CASE-NPO-11337-1			US-PATENT-CLASS-244-103R			US-PATENT-CLASS-60-525
		NASA-CASE-NPO-11575-1			US-PATENT-CLASS-244-130			US-PATENT-4,255,929
		US-PATENT-APPL-SN-090584			US-PATENT-4,267,992	N81-25371* #	c 37	NASA-CASE-NPO-13823-1
		US-PATENT-APPL-SN-276599	N81-24519* #	c 44	NASA-CASE-LEW-12441-3			US-PATENT-APPL-SN-658487
		US-PATENT-CLASS-340-146.3H			US-PATENT-APPL-SN-032307			US-PATENT-CLASS-106-43

N81-29525

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		US-PATENT-APPL-SN-093714	US-PATENT-APPL-SN-135056	US-PATENT-CLASS-343-50M
		US-PATENT-APPL-SN-597430	US-PATENT-CLASS-318-663	US-PATENT-4,292,634
		US-PATENT-APPL-SN-683073	US-PATENT-CLASS-74-89	N82-12441* # c 37 NASA-CASE-MFS-25363-1
		US-PATENT-APPL-SN-837513	US-PATENT-CLASS-92-130R	US-PATENT-APPL-SN-171933
		US-PATENT-CLASS-136-255	US-PATENT-4,274,038	US-PATENT-CLASS-118-423
		US-PATENT-CLASS-136-258	N82-11088* # c 09 NASA-CASE-LAR-12532-1	US-PATENT-CLASS-118-500
		US-PATENT-CLASS-136-262	US-PATENT-APPL-SN-135040	US-PATENT-CLASS-134-137
		US-PATENT-CLASS-357-15	US-PATENT-CLASS-73-147	US-PATENT-4,286,542
		US-PATENT-CLASS-357-30	US-PATENT-4,286,460	N82-12442* # c 37 NASA-CASE-LEW-12989-1
		US-PATENT-4,278,830	N82-11144* # c 25 NASA-CASE-NPO-14273-1	US-PATENT-APPL-SN-092145
N81-29763* # c 52		NASA-CASE-ARC-11031-1	US-PATENT-APPL-SN-969759	US-PATENT-CLASS-277-27
		US-PATENT-APPL-SN-897828	US-PATENT-CLASS-110-234	US-PATENT-CLASS-277-40
		US-PATENT-CLASS-128-275	US-PATENT-CLASS-110-245	US-PATENT-CLASS-277-93R
		US-PATENT-CLASS-128-760	US-PATENT-CLASS-110-255	US-PATENT-4,291,887
		US-PATENT-4,190,060	US-PATENT-CLASS-110-266	N82-12685* # c 46 NASA-CASE-NPO-14544-1
N81-29764* # c 52		NASA-CASE-ARC-11118-1	US-PATENT-CLASS-122-4D	US-PATENT-APPL-SN-078612
		US-PATENT-APPL-SN-850504	US-PATENT-4,287,838	US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-424-247	N82-11206* # c 27 NASA-CASE-LAR-12640-1	US-PATENT-CLASS-343-100PE
		US-PATENT-CLASS-424-267	US-PATENT-APPL-SN-092142	US-PATENT-CLASS-343-781P
		US-PATENT-CLASS-424-274	US-PATENT-CLASS-156-307.7	US-PATENT-4,282,525
		US-PATENT-4,279,906	US-PATENT-CLASS-156-307.3	N82-13376* # c 34 NASA-CASE-MFS-25139-1
N81-29963* # c 74		NASA-CASE-NPO-14448-1	US-PATENT-CLASS-156-307.5	US-PATENT-APPL-SN-126138
		US-PATENT-APPL-SN-037560	US-PATENT-CLASS-156-331.5	US-PATENT-CLASS-239-499
		US-PATENT-CLASS-356-345	US-PATENT-CLASS-528-126	US-PATENT-CLASS-239-589
		US-PATENT-CLASS-356-346	US-PATENT-CLASS-528-172	US-PATENT-CLASS-239-601
		US-PATENT-4,278,351	US-PATENT-CLASS-528-173	US-PATENT-4,300,723
N81-32510* # c 37		NASA-CASE-MSC-16239-1	US-PATENT-CLASS-528-180	N82-13415* # c 36 NASA-CASE-LAR-12592-1
		US-PATENT-APPL-SN-847276	US-PATENT-CLASS-528-207	US-PATENT-APPL-SN-041141
		US-PATENT-CLASS-91-325	US-PATENT-CLASS-528-208	US-PATENT-CLASS-331-94.5C
		US-PATENT-CLASS-91-341R	US-PATENT-CLASS-528-210	US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-91-410	US-PATENT-CLASS-528-211	US-PATENT-CLASS-331-94.5P
		US-PATENT-4,283,995	US-PATENT-CLASS-528-225	US-PATENT-4,300,106
N81-32829* # c 51		NASA-CASE-MFS-23825-1	US-PATENT-CLASS-528-228	N82-13465* # c 43 NASA-CASE-GSC-12032-2
		US-PATENT-APPL-SN-145273	US-PATENT-CLASS-528-351	US-PATENT-APPL-SN-578700
		US-PATENT-CLASS-119-17	US-PATENT-CLASS-528-353	US-PATENT-APPL-SN-583219
		US-PATENT-CLASS-119-18	US-PATENT-4,284,461	US-PATENT-CLASS-250-235
		US-PATENT-4,284,034	N82-11312* # c 31 NASA-CASE-GSC-12697-1	US-PATENT-CLASS-250-236
N81-33235* # c 24		NASA-CASE-LAR-12065-2	US-PATENT-APPL-SN-308204	US-PATENT-CLASS-358-109
		US-PATENT-APPL-SN-119337	N82-11336* # c 32 NASA-CASE-MSC-18606-1	US-PATENT-4,300,159
		US-PATENT-APPL-SN-889671	US-PATENT-APPL-SN-145206	N82-15381* # c 35 NASA-CASE-NPO-14839-1
		US-PATENT-CLASS-156-242	US-PATENT-CLASS-343-700MS	US-PATENT-APPL-SN-106119
		US-PATENT-CLASS-156-245	US-PATENT-CLASS-343-708	US-PATENT-CLASS-343-100PE
		US-PATENT-CLASS-156-252	US-PATENT-CLASS-343-727	US-PATENT-CLASS-455-137
		US-PATENT-CLASS-156-264	US-PATENT-CLASS-343-795	US-PATENT-CLASS-455-139
		US-PATENT-CLASS-156-285	US-PATENT-CLASS-343-846	US-PATENT-CLASS-455-60
		US-PATENT-CLASS-156-290	US-PATENT-4,287,518	US-PATENT-4,295,140
		US-PATENT-4,229,473	N82-11357* # c 33 NASA-CASE-MSC-18106-1	N82-16059* # c 04 NASA-CASE-ARC-10990-1
		US-PATENT-4,274,901	US-PATENT-APPL-SN-098568	US-PATENT-APPL-SN-749420
N81-33246* # c 25		NASA-CASE-NPO-14272-1	US-PATENT-CLASS-335-256	US-PATENT-CLASS-244-114R
		US-PATENT-APPL-SN-878253	US-PATENT-CLASS-335-266	US-PATENT-CLASS-340-26
		US-PATENT-CLASS-201-17	US-PATENT-CLASS-361-141	US-PATENT-4,291,294
		US-PATENT-CLASS-44-1R	US-PATENT-4,295,111	N82-16075* # c 06 NASA-CASE-FRC-11005-1
		US-PATENT-CLASS-44-2	N82-11360* # c 33 NASA-CASE-MFS-25586-1	US-PATENT-APPL-SN-043942
		US-PATENT-4,146,367	US-PATENT-APPL-SN-310714	US-PATENT-CLASS-340-27NA
N81-33319* # c 31		NASA-CASE-NPO-14596-1	N82-11399* # c 34 NASA-CASE-LEW-12950-1	US-PATENT-CLASS-73-178R
		US-PATENT-APPL-SN-037072	US-PATENT-APPL-SN-202228	US-PATENT-4,283,705
		US-PATENT-CLASS-264-24	N82-11431* # c 35 NASA-CASE-LAR-12552-1	N82-16174* # c 23 NASA-CASE-ARC-11244-1
		US-PATENT-CLASS-264-5	US-PATENT-APPL-SN-070366	US-PATENT-APPL-SN-054501
		US-PATENT-CLASS-264-9	US-PATENT-CLASS-235-92PC	US-PATENT-CLASS-260-340.9R
		US-PATENT-CLASS-425-6	US-PATENT-CLASS-324-71CP	US-PATENT-CLASS-568-445
		US-PATENT-CLASS-65-142	US-PATENT-4,286,209	US-PATENT-CLASS-568-497
		US-PATENT-CLASS-65-21.4	N82-11432* # c 35 NASA-CASE-MFS-23250-1	US-PATENT-4,277,402
		US-PATENT-CLASS-65-22	US-PATENT-APPL-SN-119340	N82-16238* # c 27 NASA-CASE-MSC-18382-1
		US-PATENT-4,279,632	US-PATENT-CLASS-422-40	US-PATENT-APPL-SN-145107
N81-33403* # c 33		NASA-CASE-GSC-12324-1	US-PATENT-CLASS-430-17	US-PATENT-CLASS-106-18.16
		US-PATENT-APPL-SN-945043	US-PATENT-CLASS-430-372	US-PATENT-CLASS-106-18.24
		US-PATENT-CLASS-358-109	US-PATENT-4,287,152	US-PATENT-CLASS-260-45.7R
		US-PATENT-CLASS-358-213	N82-11469* # c 37 NASA-CASE-NPO-15539-1	US-PATENT-CLASS-427-393.3
		US-PATENT-4,280,141	US-PATENT-APPL-SN-303670	US-PATENT-CLASS-428-263
N81-33404* # c 33		NASA-CASE-NPO-14316-1	N82-11634* # c 45 NASA-CASE-NPO-13877-1	US-PATENT-CLASS-428-264
		US-PATENT-APPL-SN-051276	US-PATENT-APPL-SN-652979	US-PATENT-CLASS-428-265
		US-PATENT-CLASS-363-24	US-PATENT-CLASS-210-40	US-PATENT-CLASS-428-267
		US-PATENT-CLASS-363-56	US-PATENT-CLASS-252-422	US-PATENT-CLASS-428-272
		US-PATENT-4,276,588	US-PATENT-4,209,393	US-PATENT-4,284,682
N81-33405* # c 33		NASA-CASE-NPO-14435-1	N82-11770* # c 52 NASA-CASE-MSC-14836-1	N82-16340* # c 33 NASA-CASE-GSC-12420-1
		US-PATENT-APPL-SN-017886	US-PATENT-APPL-SN-691647	US-PATENT-APPL-SN-129793
		US-PATENT-CLASS-329-122	US-PATENT-CLASS-128-327	US-PATENT-CLASS-333-104
		US-PATENT-CLASS-331-DIG.2	US-PATENT-CLASS-128-686	US-PATENT-CLASS-333-246
		US-PATENT-CLASS-364-514	US-PATENT-CLASS-128-691	US-PATENT-4,302,734
		US-PATENT-CLASS-375-1	US-PATENT-4,294,261	N82-16396* # c 36 NASA-CASE-GSC-12321-1
		US-PATENT-4,279,018	N82-12166* # c 25 NASA-CASE-MSC-16497-1	US-PATENT-APPL-SN-102001
N81-33448* # c 35		NASA-CASE-NPO-14258-1	US-PATENT-APPL-SN-041145	US-PATENT-CLASS-356-349
		US-PATENT-APPL-SN-853349	US-PATENT-CLASS-204-1T	US-PATENT-CLASS-356-386
		US-PATENT-APPL-SN-972252	US-PATENT-CLASS-204-195S	US-PATENT-4,299,492
		US-PATENT-CLASS-350-370	US-PATENT-CLASS-204-263	N82-16408* # c 37 NASA-CASE-MSC-18422-1
		US-PATENT-CLASS-356-350	US-PATENT-CLASS-204-264	US-PATENT-APPL-SN-102593
		US-PATENT-CLASS-356-351	US-PATENT-CLASS-204-266	US-PATENT-CLASS-244-113
		US-PATENT-4,280,766	US-PATENT-CLASS-204-275	US-PATENT-CLASS-244-163
N81-33482* # c 37		NASA-CASE-NPO-15227-1	US-PATENT-CLASS-204-276	US-PATENT-CLASS-244-217
		US-PATENT-APPL-SN-163840	US-PATENT-CLASS-204-278	US-PATENT-CLASS-277-189
		US-PATENT-CLASS-118-50	US-PATENT-CLASS-23-230PC	US-PATENT-CLASS-277-81R
		US-PATENT-CLASS-118-52	US-PATENT-CLASS-23-232E	US-PATENT-CLASS-418-113
		US-PATENT-CLASS-269-21	US-PATENT-CLASS-422-80	US-PATENT-CLASS-418-142
		US-PATENT-CLASS-427-240	US-PATENT-4,293,522	US-PATENT-4,290,612
		US-PATENT-4,280,689	N82-12297* # c 32 NASA-CASE-NPO-14054-1	N82-16474* # c 44 NASA-CASE-MFS-23775-1
N81-33483* # c 37		NASA-CASE-FRC-11044-1	US-PATENT-APPL-SN-969761	US-PATENT-APPL-SN-098569

		US-PATENT-CLASS-73-341 US-PATENT-4,282,752				US-PATENT-APPL-SN-848428 US-PATENT-CLASS-264-216 US-PATENT-CLASS-264-453 US-PATENT-CLASS-264-53 US-PATENT-CLASS-427-115 US-PATENT-CLASS-427-244 US-PATENT-CLASS-427-246 US-PATENT-4,133,941 US-PATENT-4,309,372				US-PATENT-CLASS-570-129 US-PATENT-4,307,024
N82-16475* #	c 44	NASA-CASE-NPO-15071-1 US-PATENT-APPL-SN-150115 US-PATENT-CLASS-126-438 US-PATENT-CLASS-250-527 US-PATENT-CLASS-48-89 US-PATENT-CLASS-48-99 US-PATENT-4,290,779						N82-24338* #	c 27	NASA-CASE-ARC-11253-2 US-PATENT-APPL-SN-028301 US-PATENT-APPL-SN-145284 US-PATENT-CLASS-528-310 US-PATENT-CLASS-528-328 US-PATENT-CLASS-528-362 US-PATENT-CLASS-528-401 US-PATENT-CLASS-528-422 US-PATENT-4,273,918
N82-16747* #	c 60	NASA-CASE-GSC-12430-1 US-PATENT-APPL-SN-129779 US-PATENT-CLASS-370-100 US-PATENT-CLASS-375-106 US-PATENT-CLASS-375-114 US-PATENT-CLASS-375-116 US-PATENT-4,298,987		N82-21269* #	c 25	NASA-CASE-XLA-8914-2 US-PATENT-APPL-SN-662181 US-PATENT-APPL-SN-810576 US-PATENT-CLASS-210-321.1 US-PATENT-CLASS-55-158 US-PATENT-4,302,223				
N82-16800* #	c 71	NASA-CASE-FRC-11062-1 US-PATENT-APPL-SN-185869 US-PATENT-CLASS-181-214 US-PATENT-4,300,656		N82-21587* #	c 37	NASA-CASE-NPO-14395-1 US-PATENT-APPL-SN-961833 US-PATENT-CLASS-104-83 US-PATENT-CLASS-105-1A US-PATENT-CLASS-105-171 US-PATENT-CLASS-105-180 US-PATENT-CLASS-105-218R US-PATENT-CLASS-248-425 US-PATENT-4,301,740		N82-24339* #	c 27	NASA-CASE-ARC-11310-1 US-PATENT-APPL-SN-147700 US-PATENT-CLASS-102-289 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-192 US-PATENT-CLASS-428-193 US-PATENT-CLASS-428-241 US-PATENT-CLASS-428-242 US-PATENT-CLASS-428-245 US-PATENT-CLASS-428-251 US-PATENT-CLASS-428-257 US-PATENT-CLASS-428-260 US-PATENT-CLASS-428-266 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-448 US-PATENT-CLASS-428-493 US-PATENT-4,308,309
N82-18314* #	c 20	NASA-CASE-GSC-12194-2 US-PATENT-APPL-SN-819029 US-PATENT-APPL-SN-971474 US-PATENT-CLASS-60-200R US-PATENT-CLASS-60-39.46M US-PATENT-4,288,982		N82-22496* #	c 37	NASA-CASE-ARC-11325-1 US-PATENT-APPL-SN-354126				
N82-18389* #	c 27	NASA-CASE-ARC-11176-1 US-PATENT-APPL-SN-129799 US-PATENT-CLASS-528-168 US-PATENT-CLASS-528-399 US-PATENT-CLASS-528-4 US-PATENT-CLASS-528-6 US-PATENT-CLASS-568-2 US-PATENT-CLASS-568-4 US-PATENT-CLASS-568-5 US-PATENT-4,288,585		N82-22875* #	c 52	NASA-CASE-GSC-12081-2 US-PATENT-APPL-SN-672209 US-PATENT-APPL-SN-796258 US-PATENT-CLASS-128-1.2 US-PATENT-CLASS-128-778 US-PATENT-CLASS-33-143C US-PATENT-4,294,264		N82-24340* #	c 27	NASA-CASE-MFS-25181-1 US-PATENT-APPL-SN-218585 US-PATENT-CLASS-156-315 US-PATENT-CLASS-156-338 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-339 US-PATENT-CLASS-428-462 US-PATENT-CLASS-428-466 US-PATENT-CLASS-428-493 US-PATENT-4,327,150
N82-18401* #	c 28	NASA-CASE-ARC-11245-1 US-PATENT-APPL-SN-088663 US-PATENT-CLASS-239-690 US-PATENT-CLASS-361-226 US-PATENT-CLASS-361-230 US-PATENT-4,303,961		N82-23231* #	c 04	NASA-CASE-FRC-11052-1 US-PATENT-APPL-SN-129783 US-PATENT-CLASS-244-168 US-PATENT-CLASS-244-175 US-PATENT-CLASS-244-190 US-PATENT-CLASS-318-580 US-PATENT-4,326,685				
N82-18443* #	c 32	NASA-CASE-NPO-14632-1 US-PATENT-APPL-SN-092143 US-PATENT-CLASS-367-100 US-PATENT-CLASS-367-102 US-PATENT-CLASS-367-88 US-PATENT-4,287,578		N82-23254* #	c 09	NASA-CASE-LAR-12441-1 US-PATENT-APPL-SN-145210 US-PATENT-CLASS-73-147 US-PATENT-4,327,581		N82-24415* #	c 33	NASA-CASE-LEW-13282-1 US-PATENT-APPL-SN-073579 US-PATENT-CLASS-315-3.6 US-PATENT-CLASS-315-5.38 US-PATENT-4,277,721
N82-18493* #	c 33	NASA-CASE-FRC-11041-1 US-PATENT-APPL-SN-126064 US-PATENT-CLASS-318-561 US-PATENT-CLASS-318-620 US-PATENT-CLASS-318-621 US-PATENT-CLASS-318-622 US-PATENT-4,298,833		N82-23282* #	c 25	NASA-CASE-NPO-14542-1 US-PATENT-APPL-SN-030831 US-PATENT-CLASS-166-267 US-PATENT-CLASS-166-303 US-PATENT-CLASS-208-241 US-PATENT-4,310,049		N82-24416* #	c 33	NASA-CASE-LAR-12633-1 US-PATENT-APPL-SN-135039 US-PATENT-CLASS-358-213 US-PATENT-4,279,001
N82-18494* #	c 33	NASA-CASE-FRC-11014-1 US-PATENT-APPL-SN-053652 US-PATENT-CLASS-331-113R US-PATENT-CLASS-363-132 US-PATENT-CLASS-363-17 US-PATENT-CLASS-363-61 US-PATENT-4,298,926		N82-23376* #	c 32	NASA-CASE-NPO-14361-1 US-PATENT-APPL-SN-053572 US-PATENT-CLASS-343-17.1PF US-PATENT-CLASS-343-5DP US-PATENT-CLASS-343-7.5 US-PATENT-CLASS-356-5 US-PATENT-CLASS-367-95 US-PATENT-4,320,397		N82-24417* #	c 33	NASA-CASE-FRC-11025-1 US-PATENT-APPL-SN-115536 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-109 US-PATENT-CLASS-330-290 US-PATENT-CLASS-330-294 US-PATENT-CLASS-330-306 US-PATENT-CLASS-364-825 US-PATENT-4,275,453
N82-18601* #	c 37	NASA-CASE-LAR-12372-1 US-PATENT-APPL-SN-108107 US-PATENT-CLASS-188-371 US-PATENT-CLASS-244-110C US-PATENT-CLASS-280-805 US-PATENT-CLASS-57-906 US-PATENT-4,304,320		N82-24072* #	c 74	NASA-CASE-NPO-14813-1 US-PATENT-APPL-SN-145282 US-PATENT-CLASS-250-216 US-PATENT-CLASS-250-235 US-PATENT-4,320,290		N82-24418* #	c 33	NASA-CASE-NPO-14556-1 US-PATENT-APPL-SN-023485 US-PATENT-CLASS-307-415 US-PATENT-CLASS-328-67 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5PE US-PATENT-CLASS-333-20 US-PATENT-4,275,317
N82-18686* #	c 44	NASA-CASE-MFS-25287-1 US-PATENT-APPL-SN-098570 US-PATENT-CLASS-126-422 US-PATENT-CLASS-126-429 US-PATENT-CLASS-126-430 US-PATENT-4,304,219		N82-24205* #	c 08	NASA-CASE-LAR-12412-1 US-PATENT-APPL-SN-067595 US-PATENT-CLASS-244-213 US-PATENT-CLASS-244-226 US-PATENT-CLASS-244-78 US-PATENT-CLASS-74-479 US-PATENT-CLASS-74-480R US-PATENT-4,272,046		N82-24419* #	c 33	NASA-CASE-GSC-12415-1 US-PATENT-APPL-SN-043943 US-PATENT-CLASS-165-32 US-PATENT-CLASS-62-383 US-PATENT-4,281,708
N82-19029* #	c 74	NASA-CASE-NPO-15036-1 US-PATENT-APPL-SN-188160 US-PATENT-CLASS-455-610 US-PATENT-CLASS-455-612 US-PATENT-CLASS-455-615 US-PATENT-CLASS-455-617 US-PATENT-4,287,606		N82-24212* #	c 09	NASA-CASE-ARC-11158-1 US-PATENT-APPL-SN-053566 US-PATENT-CLASS-434-42 US-PATENT-CLASS-434-43 US-PATENT-4,313,726		N82-24420* #	c 33	NASA-CASE-ARC-11116-1 US-PATENT-APPL-SN-069485 US-PATENT-CLASS-324-51 US-PATENT-CLASS-324-52 US-PATENT-4,282,479
N82-19540* #	c 37	NASA-CASE-LEW-12131-3 US-PATENT-APPL-SN-096255 US-PATENT-APPL-SN-801290 US-PATENT-APPL-SN-931090 US-PATENT-CLASS-415-174 US-PATENT-CLASS-415-196 US-PATENT-4,135,851 US-PATENT-4,207,024 US-PATENT-4,295,786		N82-24272* #	c 15	NASA-CASE-ARC-11256-1 US-PATENT-APPL-SN-032305 US-PATENT-CLASS-102-504 US-PATENT-CLASS-242-128 US-PATENT-4,271,761		N82-24421* #	c 33	NASA-CASE-GSC-12518-1 US-PATENT-APPL-SN-119336 US-PATENT-CLASS-310-12 US-PATENT-CLASS-318-135 US-PATENT-CLASS-335-229 US-PATENT-CLASS-335-266 US-PATENT-4,315,197
N82-20544* #	c 37	NASA-CASE-LAR-12801-1 US-PATENT-APPL-SN-309291		N82-24296* #	c 24	NASA-CASE-FRC-11026-1 US-PATENT-APPL-SN-043944 US-PATENT-CLASS-228-157 US-PATENT-CLASS-244-119 US-PATENT-CLASS-244-123 US-PATENT-CLASS-428-593 US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-4,292,375		N82-24422* #	c 33	NASA-CASE-GSC-12595-1 US-PATENT-APPL-SN-206506 US-PATENT-CLASS-336-120 US-PATENT-CLASS-336-83 US-PATENT-4,321,572
N82-21268* #	c 25	NASA-CASE-LEW-12358-2 US-PATENT-APPL-SN-776146		N82-24312* #	c 25	NASA-CASE-ARC-11097-1 US-PATENT-APPL-SN-891872 US-PATENT-CLASS-260-386 US-PATENT-CLASS-260-389 US-PATENT-CLASS-528-402 US-PATENT-CLASS-570-123		N82-24427* #	c 33	NASA-CASE-MSC-18407-1 US-PATENT-APPL-SN-293419
								N82-24470* #	c 35	NASA-CASE-LAR-12321-1 US-PATENT-APPL-SN-178195 US-PATENT-CLASS-29-613 US-PATENT-CLASS-338-25 US-PATENT-CLASS-338-275 US-PATENT-CLASS-338-28

		US-PATENT-4,317,102	US-PATENT-CLASS-244.12.2	US-PATENT-CLASS-357-63
N82-24471* #	c 35	NASA-CASE-GSC-12354-1	US-PATENT-CLASS-244-23C	US-PATENT-4,311,870
		US-PATENT-APPL-SN-128229	US-PATENT-CLASS-244-34A	NASA-CASE-ARC-11314-1
		US-PATENT-CLASS-250-385	US-PATENT-CLASS-244-93	US-PATENT-APPL-SN-168943
		US-PATENT-CLASS-250-386	US-PATENT-4,307,856	US-PATENT-CLASS-73-862.08
		US-PATENT-CLASS-250-389	NASA-CASE-LEW-13199-1	US-PATENT-4,311,055
		US-PATENT-CLASS-29-25.14	US-PATENT-APPL-SN-025301	NASA-CASE-NPO-15562-1
		US-PATENT-CLASS-313-348	US-PATENT-CLASS-244-110B	US-PATENT-APPL-SN-364097
		US-PATENT-CLASS-313-93	US-PATENT-CLASS-60-226A	NASA-CASE-MSC-18532-1
		US-PATENT-4,325,001	US-PATENT-4,278,220	US-PATENT-APPL-SN-172099
N82-24490* #	c 37	NASA-CASE-LAR-12315-1	NASA-CASE-LAR-11688-1	US-PATENT-CLASS-343-789
		US-PATENT-APPL-SN-096257	US-PATENT-APPL-SN-878540	US-PATENT-CLASS-343-895
		US-PATENT-CLASS-220-378	US-PATENT-CLASS-244-119	US-PATENT-4,315,266
		US-PATENT-CLASS-277-1	US-PATENT-CLASS-244-123	NASA-CASE-LAR-12175-1
		US-PATENT-CLASS-277-105	US-PATENT-CLASS-244-132	US-PATENT-APPL-SN-079913
		US-PATENT-CLASS-277-2	US-PATENT-4,310,132	US-PATENT-CLASS-244-48
		US-PATENT-CLASS-277-204	NASA-CASE-MSC-18934-3	US-PATENT-4,330,100
		US-PATENT-CLASS-277-4	US-PATENT-APPL-SN-361711	NASA-CASE-ARC-11267-2
		US-PATENT-CLASS-277-59	NASA-CASE-MSC-18796-1	US-PATENT-APPL-SN-163838
		US-PATENT-CLASS-277-72R	US-PATENT-APPL-SN-367121	US-PATENT-CLASS-528-401
		US-PATENT-CLASS-285-37	NASA-CASE-LAR-12705-1	US-PATENT-CLASS-528-422
		US-PATENT-4,309,039	US-PATENT-APPL-SN-135058	US-PATENT-CLASS-547-131
N82-24491* #	c 37	NASA-CASE-MSC-18430-1	US-PATENT-CLASS-252-514	US-PATENT-CLASS-564-229
		US-PATENT-APPL-SN-113015	US-PATENT-4,311,615	US-PATENT-4,316,035
		US-PATENT-CLASS-156-84	NASA-CASE-LEW-13324-1	NASA-CASE-NPO-15015-1
		US-PATENT-CLASS-156-85	US-PATENT-APPL-SN-375784	US-PATENT-APPL-SN-145207
		US-PATENT-CLASS-156-86	NASA-CASE-MSC-18851-1	US-PATENT-CLASS-203-12
		US-PATENT-CLASS-264-230	US-PATENT-APPL-SN-342858	US-PATENT-CLASS-422-186
		US-PATENT-CLASS-264-342R	NASA-CASE-LEW-12296-1	US-PATENT-CLASS-422-198
		US-PATENT-4,269,640	US-PATENT-APPL-SN-122966	US-PATENT-CLASS-423-235
N82-24492* #	c 37	NASA-CASE-ARC-11110-1	US-PATENT-CLASS-315-3.5	US-PATENT-CLASS-423-539
		US-PATENT-APPL-SN-945040	US-PATENT-CLASS-315-3.6	US-PATENT-CLASS-423-540
		US-PATENT-CLASS-118-320	US-PATENT-CLASS-330-43	US-PATENT-CLASS-423-542
		US-PATENT-CLASS-118-500	US-PATENT-4,315,194	US-PATENT-CLASS-423-579
		US-PATENT-CLASS-118-503	NASA-CASE-MFS-23828-1	US-PATENT-CLASS-423-648R
		US-PATENT-CLASS-118-505	US-PATENT-APPL-SN-111436	US-PATENT-4,314,984
		US-PATENT-CLASS-427-425	US-PATENT-CLASS-318-254	NASA-CASE-LEW-13120-1
		US-PATENT-4,312,292	US-PATENT-CLASS-318-806	US-PATENT-APPL-SN-218587
N82-24493* #	c 37	NASA-CASE-NPO-15115-1	US-PATENT-CLASS-318-812	US-PATENT-CLASS-204-192E
		US-PATENT-APPL-SN-154725	US-PATENT-CLASS-318-830	US-PATENT-CLASS-204-192EC
		US-PATENT-CLASS-74-18.1	US-PATENT-4,313,077	US-PATENT-CLASS-264-22
		US-PATENT-CLASS-74-18.2	NASA-CASE-LAR-12659-1	US-PATENT-CLASS-264-220
		US-PATENT-CLASS-92-37	US-PATENT-APPL-SN-171928	US-PATENT-CLASS-428-141
		US-PATENT-4,311,057	US-PATENT-CLASS-340-347DD	US-PATENT-4,329,385
N82-24494* #	c 37	NASA-CASE-MSC-18526-1	US-PATENT-4,313,103	NASA-CASE-LEW-13343-1
		US-PATENT-APPL-SN-119335	NASA-CASE-LAR-12595-1	US-PATENT-APPL-SN-161254
		US-PATENT-CLASS-285-159	US-PATENT-APPL-SN-070774	US-PATENT-CLASS-427-205
		US-PATENT-CLASS-285-401	US-PATENT-CLASS-156-157	US-PATENT-CLASS-427-253
		US-PATENT-CLASS-285-89	US-PATENT-CLASS-156-272	US-PATENT-CLASS-427-405
		US-PATENT-CLASS-403-315	US-PATENT-CLASS-156-379.7	US-PATENT-CLASS-428-938
		US-PATENT-4,320,911	US-PATENT-CLASS-156-71	US-PATENT-CLASS-428-941
N82-24639* #	c 44	NASA-CASE-MFS-23830-1	US-PATENT-CLASS-219-10.41	US-PATENT-4,310,574
		US-PATENT-APPL-SN-129780	US-PATENT-CLASS-219-10.53	NASA-CASE-NPO-14845-1
		US-PATENT-CLASS-415-DIG.8	US-PATENT-CLASS-219-545	US-PATENT-APPL-SN-219680
		US-PATENT-CLASS-415-2R	US-PATENT-CLASS-428-247	US-PATENT-CLASS-264-5
		US-PATENT-4,309,146	US-PATENT-4,313,777	US-PATENT-CLASS-425-6
N82-24640* #	c 44	NASA-CASE-LAR-12148-1	NASA-CASE-LAR-12465-1	US-PATENT-CLASS-65-142
		US-PATENT-APPL-SN-051275	US-PATENT-APPL-SN-106136	US-PATENT-CLASS-65-21.4
		US-PATENT-CLASS-60-516	US-PATENT-CLASS-361-283	US-PATENT-CLASS-65-22
		US-PATENT-CLASS-60-641.14	US-PATENT-CLASS-367-181	US-PATENT-4,313,745
		US-PATENT-4,326,381	US-PATENT-CLASS-73-724	NASA-CASE-MFS-23776-1
N82-24641* #	c 44	NASA-CASE-GSC-10019-1	US-PATENT-4,310,906	US-PATENT-APPL-SN-145272
		US-PATENT-APPL-SN-680048	NASA-CASE-LAR-12474-1	US-PATENT-CLASS-250-214
		US-PATENT-CLASS-136-6	US-PATENT-APPL-SN-171934	US-PATENT-CLASS-250-221
		US-PATENT-3,498,841	US-PATENT-CLASS-352-171	US-PATENT-4,319,133
N82-24642* #	c 44	NASA-CASE-GSC-10350-1	US-PATENT-CLASS-354-217	NASA-CASE-MSC-20181-1
		US-PATENT-APPL-SN-679980	US-PATENT-CLASS-354-289	US-PATENT-APPL-SN-392093
		US-PATENT-CLASS-136-6	US-PATENT-4,311,378	NASA-CASE-LAR-12709-1
		US-PATENT-3,498,840	NASA-CASE-MFS-25707-1	US-PATENT-APPL-SN-235796
N82-24643* #	c 44	NASA-CASE-GSC-10017-1	US-PATENT-APPL-SN-359627	US-PATENT-CLASS-204-195B
		US-PATENT-APPL-SN-679996	NASA-CASE-MSC-18538-1	US-PATENT-CLASS-435-291
		US-PATENT-CLASS-136-6	US-PATENT-APPL-SN-138944	US-PATENT-CLASS-435-34
		US-PATENT-3,519,484	US-PATENT-CLASS-30-102	US-PATENT-CLASS-435-39
N82-24644* #	c 44	NASA-CASE-GSC-10018-1	US-PATENT-4,305,205	US-PATENT-4,335,206
		US-PATENT-APPL-SN-679987	NASA-CASE-MSC-18742-1	NASA-CASE-NPO-14782-1
		US-PATENT-CLASS-136-6	US-PATENT-APPL-SN-293417	US-PATENT-APPL-SN-119339
		US-PATENT-3,519,483	NASA-CASE-LEW-13268-2	US-PATENT-CLASS-330-4.3
N82-24645* #	c 44	NASA-CASE-GSC-10349-1	US-PATENT-APPL-SN-325931	US-PATENT-CLASS-372-56
		US-PATENT-APPL-SN-658999	NASA-CASE-LAR-12729-1	US-PATENT-CLASS-372-58
		US-PATENT-CLASS-136-148	US-PATENT-APPL-SN-371353	US-PATENT-CLASS-372-82
		US-PATENT-3,506,496	NASA-CASE-NPO-15183-1	US-PATENT-4,328,464
N82-24779* #	c 47	NASA-CASE-KSC-11099-1	US-PATENT-APPL-SN-173519	NASA-CASE-NPO-13689-4
		US-PATENT-APPL-SN-043945	US-PATENT-CLASS-62-148	US-PATENT-APPL-SN-225501
		US-PATENT-CLASS-324-72	US-PATENT-CLASS-62-235.1	US-PATENT-APPL-SN-597430
		US-PATENT-CLASS-324-77R	US-PATENT-CLASS-62-238.3	US-PATENT-APPL-SN-683073
		US-PATENT-4,272,720	US-PATENT-CLASS-62-239	US-PATENT-APPL-SN-837513
N82-24839* #	c 60	NASA-CASE-FRC-11042-1	US-PATENT-CLASS-62-244	US-PATENT-APPL-SN-93714
		US-PATENT-APPL-SN-129778	US-PATENT-CLASS-62-476	US-PATENT-CLASS-148-175
		US-PATENT-CLASS-254-131	US-PATENT-4,307,575	US-PATENT-CLASS-29-572
		US-PATENT-CLASS-29-267	NASA-CASE-NPO-15179-1	US-PATENT-CLASS-427-531
		US-PATENT-CLASS-29-764	US-PATENT-APPL-SN-185867	US-PATENT-CLASS-427-74
		US-PATENT-4,307,510	US-PATENT-CLASS-136-261	US-PATENT-4,278,830
N82-25484* #	c 35	NASA-CASE-NPO-15494-1	US-PATENT-CLASS-136-290	US-PATENT-4,321,099
		US-PATENT-APPL-SN-325885	US-PATENT-CLASS-148-1.5	NASA-CASE-XMS-03694-1
N82-26277* #	c 05	NASA-CASE-FRC-11007-2	US-PATENT-CLASS-219-121LN	US-PATENT-APPL-SN-394280
		US-PATENT-APPL-SN-043911	US-PATENT-CLASS-357-30	US-PATENT-CLASS-165-46

N82-29013* #	c 60	US-PATENT-3,295,594 NASA-CASE-MSC-18498-1 US-PATENT-APPL-SN-173518 US-PATENT-CLASS-244-194 US-PATENT-CLASS-318-564 US-PATENT-CLASS-371-68 US-PATENT-4,327,437	N82-29538* #	c 33	US-PATENT-4,338,368 NASA-CASE-NPO-15066-1 US-PATENT-APPL-SN-191744 US-PATENT-CLASS-179-18GF US-PATENT-CLASS-340-825.89 US-PATENT-CLASS-370-67 US-PATENT-4,331,956	N82-32366* #	c 07	US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918 NASA-CASE-LEW-12938-1 US-PATENT-APPL-SN-060449 US-PATENT-CLASS-415-145 US-PATENT-CLASS-415-178 US-PATENT-CLASS-60-39.07 US-PATENT-CLASS-60-39.29 US-PATENT-CLASS-60-726 US-PATENT-4,329,114
N82-29330* #	c 09	NASA-CASE-KSC-11042-1 US-PATENT-APPL-SN-154663 US-PATENT-APPL-SN-862878 US-PATENT-CLASS-53-429 US-PATENT-CLASS-8-150 US-PATENT-4,244,810 US-PATENT-4,313,291	N82-29539* #	c 33	NASA-CASE-NPO-14311-1 US-PATENT-APPL-SN-969762 US-PATENT-CLASS-328-166 US-PATENT-CLASS-455-202 US-PATENT-CLASS-455-208 US-PATENT-CLASS-455-234 US-PATENT-CLASS-455-306 US-PATENT-4,336,616	N82-32373* #	c 08	NASA-CASE-LAR-12468-1 US-PATENT-APPL-SN-135057 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-137R US-PATENT-CLASS-89-1.5G US-PATENT-4,343,447
N82-29358* #	c 23	NASA-CASE-LAR-10423-1 US-PATENT-APPL-SN-877445 US-PATENT-CLASS-260-65 US-PATENT-3,657,190	N82-29589* #	c 36	NASA-CASE-NPO-15111-1 US-PATENT-APPL-SN-150040 US-PATENT-CLASS-350-358 US-PATENT-4,332,441	N82-32417* #	c 24	NASA-CASE-LAR-12620-1 US-PATENT-APPL-SN-072857 US-PATENT-CLASS-244-132 US-PATENT-CLASS-244-158A US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-CLASS-428-607 US-PATENT-CLASS-428-608 US-PATENT-4,344,591
N82-29362* #	c 24	NASA-CASE-MSC-18223-1 US-PATENT-APPL-SN-219681 US-PATENT-CLASS-128-280 US-PATENT-CLASS-128-283 US-PATENT-CLASS-128-284 US-PATENT-CLASS-128-285 US-PATENT-CLASS-128-288 US-PATENT-CLASS-128-291 US-PATENT-CLASS-128-296 US-PATENT-CLASS-428-283 US-PATENT-CLASS-428-284 US-PATENT-CLASS-428-286 US-PATENT-CLASS-428-287 US-PATENT-CLASS-428-288 US-PATENT-4,338,371	N82-29708* #	c 44	NASA-CASE-LEW-13171-1 US-PATENT-APPL-SN-238790 US-PATENT-CLASS-429-144 US-PATENT-CLASS-429-251 US-PATENT-CLASS-429-254 US-PATENT-4,331,746	N82-32659* #	c 35	NASA-CASE-GSC-12587-1 US-PATENT-APPL-SN-173524 US-PATENT-CLASS-250-369 US-PATENT-4,345,153
N82-29370* #	c 25	US-PATENT-4,338,371 NASA-CASE-XGS-05584-1 NASA-CASE-XGS-07375-1 NASA-CASE-XGS-07397-1 US-PATENT-APPL-SN-446071 US-PATENT-CLASS-106-197 US-PATENT-3,442,674	N82-29709* #	c 44	NASA-CASE-LEW-13401-1 US-PATENT-APPL-SN-219678 US-PATENT-CLASS-136-249 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-4,335,503	N82-32712* #	c 36	NASA-CASE-LAR-12328-1 US-PATENT-APPL-SN-073477 US-PATENT-CLASS-350-453 US-PATENT-CLASS-356-28.5 US-PATENT-4,346,990
N82-29371* #	c 25	NASA-CASE-NPO-14902-1 US-PATENT-APPL-SN-156790 US-PATENT-CLASS-201-17 US-PATENT-CLASS-44-1SR US-PATENT-4,325,707	N82-29710* #	c 44	NASA-CASE-NPO-15269-1 US-PATENT-APPL-SN-220214 US-PATENT-CLASS-204-290F US-PATENT-CLASS-204-290R US-PATENT-CLASS-429-193 US-PATENT-CLASS-429-33 US-PATENT-CLASS-429-40 US-PATENT-4,331,742	N82-32730* #	c 37	NASA-CASE-GSC-12584-1 US-PATENT-APPL-SN-182879 US-PATENT-CLASS-125-23R US-PATENT-CLASS-225-103 US-PATENT-4,343,287
N82-29415* #	c 26	NASA-CASE-NPO-14902-1 US-PATENT-APPL-SN-156790 US-PATENT-CLASS-201-17 US-PATENT-CLASS-44-1SR US-PATENT-4,325,707	N82-29862* #	c 52	NASA-CASE-LAR-12471-1 US-PATENT-APPL-SN-178193 US-PATENT-CLASS-128-62A US-PATENT-CLASS-433-118 US-PATENT-CLASS-433-125 US-PATENT-CLASS-433-86 US-PATENT-4,331,422	N82-32731* #	c 37	NASA-CASE-MFS-23846-1 US-PATENT-APPL-SN-168944 US-PATENT-CLASS-294-116 US-PATENT-CLASS-414-222 US-PATENT-CLASS-414-226 US-PATENT-CLASS-414-739 US-PATENT-4,343,584
N82-29451* #	c 27	US-PATENT-4,336,117 NASA-CASE-HQN-10274-1 US-PATENT-APPL-SN-683465 US-PATENT-CLASS-106-52 US-PATENT-3,573,078	N82-29863* #	c 52	NASA-CASE-GSC-12560-1 US-PATENT-APPL-SN-153246 US-PATENT-CLASS-128-421 US-PATENT-4,308,868	N82-32732* #	c 37	NASA-CASE-LAR-12482-1 US-PATENT-APPL-SN-100611 US-PATENT-CLASS-403-217 US-PATENT-CLASS-403-317 US-PATENT-CLASS-403-331 US-PATENT-CLASS-403-340 US-PATENT-CLASS-52-81 US-PATENT-4,340,318
N82-29452* #	c 27	US-PATENT-3,573,078 NASA-CASE-HQN-10931-2 US-PATENT-APPL-SN-246295 US-PATENT-APPL-SN-874674 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,785,836	N82-30071* #	c 74	NASA-CASE-MSC-18627-1 US-PATENT-APPL-SN-186881 US-PATENT-CLASS-250-226 US-PATENT-CLASS-250-231R US-PATENT-CLASS-374-162R US-PATENT-4,338,516	N82-32841* #	c 44	NASA-CASE-LAR-12513-1 US-PATENT-APPL-SN-161256 US-PATENT-CLASS-250-330 US-PATENT-CLASS-250-370 US-PATENT-4,331,873
N82-29453* #	c 27	US-PATENT-3,785,836 NASA-CASE-LEW-13268-1 US-PATENT-APPL-SN-145209 US-PATENT-CLASS-415-174 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-423 US-PATENT-4,336,276	N82-30105* #	c 76	NASA-CASE-NPO-14831-1 US-PATENT-APPL-SN-233269 US-PATENT-CLASS-156-602 US-PATENT-CLASS-156-608 US-PATENT-CLASS-422-246 US-PATENT-4,330,359	N82-33288* #	c 85	NASA-CASE-FRC-11058-1 US-PATENT-APPL-SN-175453 US-PATENT-CLASS-105-2R US-PATENT-CLASS-244-53B US-PATENT-CLASS-296-1S US-PATENT-CLASS-296-24C US-PATENT-CLASS-296-91 US-PATENT-4,343,506
N82-29454* #	c 27	US-PATENT-4,336,276 NASA-CASE-HQN-10328-2 US-PATENT-APPL-SN-246294 US-PATENT-APPL-SN-874673 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,811,901	N82-30371* #	c 26	NASA-CASE-LEW-13169-2 US-PATENT-APPL-SN-102003 US-PATENT-APPL-SN-191746 US-PATENT-CLASS-204-192C US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-472 US-PATENT-4,341,843	N82-33520* #	c 27	NASA-CASE-KSC-11097-1 US-PATENT-APPL-SN-172100 US-PATENT-CLASS-427-140 US-PATENT-CLASS-427-372.2 US-PATENT-CLASS-427-397.7 US-PATENT-4,330,572
N82-29455* #	c 27	US-PATENT-3,811,901 NASA-CASE-HQN-10595-1 US-PATENT-APPL-SN-259056 US-PATENT-APPL-SN-874675 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-3,947,281	N82-31505* #	c 26	NASA-CASE-LEW-13339-1 US-PATENT-APPL-SN-199769 US-PATENT-CLASS-148-428 US-PATENT-CLASS-204-445 US-PATENT-CLASS-420-551 US-PATENT-CLASS-420-588 US-PATENT-4,340,425	N82-33521* #	c 27	NASA-CASE-LEW-13028-1 US-PATENT-APPL-SN-218588 US-PATENT-CLASS-204-192E US-PATENT-CLASS-204-388 US-PATENT-CLASS-428-141 US-PATENT-4,344,996
N82-29456* #	c 27	US-PATENT-3,947,281 NASA-CASE-MSC-18741-1 US-PATENT-APPL-SN-217336 US-PATENT-CLASS-156-329 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-163 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-218 US-PATENT-CLASS-428-283 US-PATENT-CLASS-428-289 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-311.5 US-PATENT-CLASS-428-312.6 US-PATENT-CLASS-428-317.9 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-49	N82-31583* #	c 32	NASA-CASE-MSC-16462-1 US-PATENT-APPL-SN-900841 US-PATENT-CLASS-178-22.16 US-PATENT-CLASS-178-22.17 US-PATENT-CLASS-364-717 US-PATENT-CLASS-375-106 US-PATENT-4,341,925	N82-33523* #	c 27	NASA-CASE-ARC-14408-1 US-PATENT-APPL-SN-403371
			N82-31659* #	c 35	NASA-CASE-LAR-12363-1 US-PATENT-APPL-SN-191748 US-PATENT-CLASS-250-332 US-PATENT-CLASS-250-370 US-PATENT-CLASS-29-576J US-PATENT-CLASS-29-576S US-PATENT-CLASS-29-620 US-PATENT-4,341,012	N82-33634* #	c 33	NASA-CASE-MFS-15670-1 US-PATENT-APPL-SN-409679
			N82-31690* #	c 37	NASA-CASE-MSC-20304-1 US-PATENT-APPL-SN-393585	N82-33681* #	c 35	NASA-CASE-NPO-15617-1 US-PATENT-APPL-SN-403849
			N82-31764* #	c 44	NASA-CASE-LEW-13400-1 US-PATENT-APPL-SN-219677	N82-33996* #	c 52	NASA-CASE-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
						N83-10040* #	c 06	NASA-CASE-NPO-15351-1 US-PATENT-APPL-SN-224231

			US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-427-88				US-PATENT-CLASS-250-340
			US-PATENT-CLASS-374-122				US-PATENT-CLASS-427-89				US-PATENT-CLASS-250-350
			US-PATENT-CLASS-374-123				US-PATENT-CLASS-427-90				US-PATENT-CLASS-250-351
			US-PATENT-CLASS-73-170R				US-PATENT-CLASS-427-91				US-PATENT-CLASS-350-353
			US-PATENT-CLASS-73-178R				US-PATENT-4,335,196				US-PATENT-4,262,198
			US-PATENT-4,346,595		N83-13978* #	c 74	NASA-CASE-ARC-11311-1		N83-19715* #	c 02	NASA-CASE-LAR-12625-1
N83-10117* #	c 24		NASA-CASE-LEW-12919-1				US-PATENT-APPL-SN-219640				US-PATENT-APPL-SN-456915
			US-PATENT-APPL-SN-264378				US-PATENT-CLASS-350-287		N83-19737* #	c 05	NASA-CASE-FRC-11065-1
			US-PATENT-CLASS-204-192E				US-PATENT-CLASS-350-486				US-PATENT-APPL-SN-248744
			US-PATENT-CLASS-313-106				US-PATENT-4,355,870				US-PATENT-CASE-244-121
			US-PATENT-CLASS-313-107		N83-13982* #	c 74	NASA-CASE-GSC-12761-1				US-PATENT-CASE-244-129.4
			US-PATENT-CLASS-315-5.38				US-PATENT-APPL-SN-406820				US-PATENT-CASE-292-254
			US-PATENT-4,349,424		N83-14692* #	c 44	NASA-CASE-LEW-12892-1				US-PATENT-4,375,281
N83-10126* #	c 25		NASA-CASE-MFS-25426-1				US-PATENT-APPL-SN-264380		N83-19890* #	c 26	NASA-CASE-NPO-15658-1
			US-PATENT-APPL-SN-254575				US-PATENT-CLASS-136-255				US-PATENT-APPL-SN-451896
			US-PATENT-CLASS-204-299R				US-PATENT-CLASS-136-256		N83-19900* #	c 27	NASA-CASE-NPO-14857-1
			US-PATENT-4,349,429				US-PATENT-CLASS-136-259				US-PATENT-APPL-SN-158530
N83-10170* #	c 26		NASA-CASE-LEW-12941-1				US-PATENT-4,360,701				US-PATENT-CLASS-523-205
			US-PATENT-APPL-SN-210632		N83-14693* #	c 44	NASA-CASE-MSC-18794-1				US-PATENT-CLASS-524-436
			US-PATENT-CLASS-29-458				US-PATENT-APPL-SN-238785				US-PATENT-CLASS-524-437
			US-PATENT-CLASS-29-521				US-PATENT-CLASS-417-399				US-PATENT-CLASS-524-503
			US-PATENT-CLASS-403-282				US-PATENT-CLASS-74-110				US-PATENT-CLASS-524-564
			US-PATENT-4,349,954				US-PATENT-4,360,325				US-PATENT-CLASS-524-786
N83-10345* #	c 33		NASA-CASE-MFS-25208-1		N83-16626* #	c 33	NASA-CASE-LAR-12772-1				US-PATENT-4,373,039
			US-PATENT-APPL-SN-280154				US-PATENT-APPL-SN-199767		N83-19947* #	c 31	NASA-CASE-NPO-15789-1
			US-PATENT-CLASS-318-803				US-PATENT-CLASS-73-579				US-PATENT-APPL-SN-322316
			US-PATENT-CLASS-363-87				US-PATENT-CLASS-73-597				US-PATENT-CLASS-204-129.55
			US-PATENT-4,351,022				US-PATENT-CLASS-73-629				US-PATENT-CLASS-204-129.75
N83-10417* #	c 36		NASA-CASE-NPO-15021-1				US-PATENT-CLASS-73-761				US-PATENT-4,375,396
			US-PATENT-APPL-SN-130496				US-PATENT-4,363,242		N83-19968* #	c 32	NASA-CASE-NPO-14035-1
			US-PATENT-CLASS-372-56		N83-16633* #	c 33	NASA-CASE-LAR-12847-1				US-PATENT-APPL-SN-858767
			US-PATENT-CLASS-372-59				US-PATENT-APPL-SN-393456				US-PATENT-CLASS-343-100CL
			US-PATENT-CLASS-372-60		N83-17045* #	c 51	NASA-CASE-NPO-15213-1				US-PATENT-CLASS-343-5CM
			US-PATENT-4,347,613				US-PATENT-APPL-SN-280153				US-PATENT-CLASS-343-9PS
N83-10494* #	c 44		NASA-CASE-LEW-13131-1				US-PATENT-CLASS-47-58				US-PATENT-4,371,873
			US-PATENT-APPL-SN-246772				US-PATENT-CLASS-71-98		N83-20085 #	c 35	NASA-CASE-GSC-12795-1
			US-PATENT-CLASS-204-56R				US-PATENT-4,363,188				US-PATENT-APPL-SN-462508
			US-PATENT-4,350,574		N83-17235* #	c 71	NASA-CASE-LAR-12883-1		N83-20152* #	c 37	NASA-CASE-ARC-11414-1
N83-10501* #	c 44		NASA-CASE-NPO-14369-1				US-PATENT-APPL-SN-267935				US-PATENT-APPL-SN-461714
			US-PATENT-APPL-SN-126063				US-PATENT-CLASS-73-147		N83-20154* #	c 37	NASA-CASE-MFS-25807
			US-PATENT-CLASS-422-200				US-PATENT-4,363,237				US-PATENT-APPL-SN-460733
			US-PATENT-CLASS-422-202		N83-17305* #	c 74	NASA-CASE-MFS-25312-1				NASA-CASE-LAR-12875-1
			US-PATENT-CLASS-422-224				US-PATENT-APPL-SN-187106		N83-20156* #	c 37	US-PATENT-APPL-SN-469865
			US-PATENT-CLASS-55-204				US-PATENT-CLASS-350-171		N83-20280* #	c 39	NASA-CASE-MSC-18929-1
			US-PATENT-4,343,772				US-PATENT-4,362,361				US-PATENT-APPL-SN-198093
N83-10900* #	c 74		NASA-CASE-GSC-12608-1		N83-17588* #	c 20	NASA-CASE-MFS-25843-1				US-PATENT-CLASS-128-782
			US-PATENT-APPL-SN-195228				US-PATENT-APPL-SN-444125				US-PATENT-CLASS-358-105
			US-PATENT-CLASS-350-170		N83-17628* #	c 25	NASA-CASE-LEW-13609-1				US-PATENT-CLASS-364-413
			US-PATENT-CLASS-350-286				US-PATENT-APPL-SN-452465				US-PATENT-CLASS-364-522
			US-PATENT-4,350,410		N83-18908* #	c 27	NASA-CASE-MSC-18832-1				US-PATENT-CLASS-364-559
N83-12098* #	c 08		NASA-CASE-ARC-11372-1				US-PATENT-APPL-SN-365950				US-PATENT-CLASS-73-379
			US-PATENT-APPL-SN-415878				US-PATENT-CLASS-428-241				US-PATENT-4,375,674
N83-12334* #	c 33		NASA-CASE-NPO-15935-1				US-PATENT-CLASS-428-244		N83-20789* #	c 76	NASA-CASE-NPO-15625-1
			US-PATENT-APPL-SN-437913				US-PATENT-CLASS-428-245				US-PATENT-APPL-SN-325933
N83-13171* #	c 24		NASA-CASE-MSC-18737-1				US-PATENT-CLASS-428-260				US-PATENT-CLASS-148-173
			US-PATENT-APPL-SN-266256				US-PATENT-CLASS-428-331				US-PATENT-CLASS-148-175
			US-PATENT-CLASS-427-379				US-PATENT-CLASS-428-368				US-PATENT-CLASS-156-608
			US-PATENT-CLASS-427-384				US-PATENT-CLASS-428-902				US-PATENT-CLASS-156-624
			US-PATENT-CLASS-427-387				US-PATENT-CLASS-428-913				US-PATENT-CLASS-156-635
			US-PATENT-CLASS-428-218				US-PATENT-CLASS-428-920				US-PATENT-CLASS-156-654
			US-PATENT-4,358,486				US-PATENT-4,373,003				US-PATENT-CLASS-156-662
N83-13172* #	c 24		NASA-CASE-MSC-18736-1		N83-18975* #	c 32	NASA-CASE-NPO-14998-1				US-PATENT-4,373,989
			US-PATENT-APPL-SN-266254				US-PATENT-APPL-SN-195547		N83-20944* #	c 07	NASA-CASE-MFS-23981-1
			US-PATENT-CLASS-244-158A				US-PATENT-CLASS-250-203R				US-PATENT-APPL-SN-231543
			US-PATENT-CLASS-427-140				US-PATENT-CLASS-343-100CL				US-PATENT-CLASS-244-159
			US-PATENT-CLASS-427-292				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-244-173
			US-PATENT-CLASS-427-302				US-PATENT-CLASS-364-822				US-PATENT-CLASS-322-2R
			US-PATENT-CLASS-427-379				US-PATENT-CLASS-364-861				US-PATENT-CLASS-339-3R
			US-PATENT-CLASS-427-384				US-PATENT-4,371,946				US-PATENT-CLASS-339-5R
			US-PATENT-CLASS-427-387		N83-18996* #	c 33	NASA-CASE-NPO-14567-1				US-PATENT-CLASS-343-DIG2
			US-PATENT-CLASS-428-63				US-PATENT-APPL-SN-038550				US-PATENT-4,377,266
			US-PATENT-4,358,480				US-PATENT-APPL-SN-180230		N83-20995* #	c 17	NASA-CASE-LAR-13006-1
N83-13187* #	c 25		NASA-CASE-MFS-25306-1				US-PATENT-CLASS-250-311				US-PATENT-APPL-SN-470113
			US-PATENT-APPL-SN-309293				US-PATENT-CLASS-324-73R		N83-20996* #	c 18	NASA-CASE-LEW-13269-1
			US-PATENT-CLASS-204-280R				US-PATENT-CLASS-356-394				US-PATENT-APPL-SN-242795
			US-PATENT-CLASS-204-299R				US-PATENT-4,358,732				US-PATENT-CLASS-415-174
			US-PATENT-4,358,358		N83-19015* #	c 34	NASA-CASE-MFS-25282-1				US-PATENT-CLASS-415-197
N83-13188* #	c 25		NASA-CASE-LEW-13504-1				US-PATENT-APPL-SN-263828				US-PATENT-4,377,371
			US-PATENT-APPL-SN-272234				US-PATENT-CLASS-378-2		N83-21238* #	c 33	NASA-CASE-ARC-11367-1
			US-PATENT-CLASS-264-104				US-PATENT-CLASS-378-43				US-PATENT-APPL-SN-460511
			US-PATENT-CLASS-429-206				US-PATENT-4,370,750		N83-21311* #	c 35	NASA-CASE-LAR-12469-1
			US-PATENT-CLASS-429-253		N83-19091* #	c 37	NASA-CASE-LAR-12361-1				US-PATENT-APPL-SN-195223
			US-PATENT-CLASS-525-61				US-PATENT-APPL-SN-182880				US-PATENT-CLASS-250-338
			US-PATENT-4,357,402				US-PATENT-CLASS-411-353				US-PATENT-CLASS-250-372
N83-13323* #	c 32		NASA-CASE-KSC-11025-1				US-PATENT-CLASS-411-517				US-PATENT-CLASS-250-474-1
			US-PATENT-APPL-SN-061327				US-PATENT-4,371,301				US-PATENT-CLASS-356-51
			US-PATENT-CLASS-371-6		N83-19596* #	c 74	NASA-CASE-LEW-12253-1				US-PATENT-4,372,680
			US-PATENT-4,358,846				US-PATENT-APPL-SN-243682		N83-21312* #	c 35	NASA-CASE-MSC-18723-1
N83-13360* #	c 33		NASA-CASE-GSC-12782-1				US-PATENT-CLASS-165-104.26				US-PATENT-APPL-SN-234223
			US-PATENT-APPL-SN-399074				US-PATENT-CLASS-165-134R				US-PATENT-CLASS-73-818
N83-13579* #	c 44		NASA-CASE-LEW-13620-1				US-PATENT-CLASS-29-157.3H				US-PATENT-4,377,089
			US-PATENT-APPL-SN-242796				US-PATENT-4,372,377		N83-21316* #	c 35	NASA-CASE-MFS-25833-1
			US-PATENT-CLASS-136-256		N83-19597* #	c 74	NASA-CASE-NPO-14864-1				US-PATENT-APPL-SN-473827
			US-PATENT-CLASS-136-259				US-PATENT-APPL-SN-061822		N83-21503* #	c 44	NASA-CASE-LAR-12458-1
			US-PATENT-CLASS-29-572				US-PATENT-CLASS-250-227				US-PATENT-APPL-SN-274705
			US-PATENT-CLASS-357-30				US-PATENT-CLASS-250-332				US-PATENT-CLASS-73-147

N83-21504* #	c 44	US-PATENT-4,372,158	N83-27569* #	c 51	US-PATENT-CLASS-429-40	N83-29324* #	c 25	US-PATENT-4,391,423
		NASA-CASE-LAR-12720-1			US-PATENT-4,382,116			NASA-CASE-GSC-12770-1
		US-PATENT-APPL-SN-274706			NASA-CASE-GSC-12158-1			US-PATENT-APPL-SN-301075
		US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-888434			US-PATENT-CLASS-423-648R
N83-21785* #	c 52	US-PATENT-4,372,159	N83-27577* #	c 52	US-PATENT-CLASS-422-52	N83-29325* #	c 25	US-PATENT-CLASS-423-649
		NASA-CASE-LEW-13107-1			US-PATENT-CLASS-435-289			US-PATENT-4,393,039
		US-PATENT-APPL-SN-272407			US-PATENT-CLASS-435-291			NASA-CASE-MSC-20206-1
		US-PATENT-CLASS-604-280			US-PATENT-CLASS-435-3			US-PATENT-APPL-SN-478129
N83-21949* #	c 74	US-PATENT-CLASS-604-8	N83-27578* #	c 52	US-PATENT-CLASS-435-34	N83-29388* #	c 27	NASA-CASE-LEW-13132-1
		US-PATENT-4,377,169			US-PATENT-CLASS-435-38			US-PATENT-APPL-SN-272152
		NASA-CASE-ARC-11354-1			US-PATENT-CLASS-435-39			US-PATENT-CLASS-204-35N
		US-PATENT-APPL-SN-282192			US-PATENT-CLASS-435-8			US-PATENT-CLASS-204-37R
N83-21993* #	c 76	US-PATENT-CLASS-356-357	N83-27975* #	c 05	US-PATENT-4,385,113	N83-29625* #	c 34	US-PATENT-CLASS-204-56R
		US-PATENT-CLASS-73-147			NASA-CASE-MSC-18761-1			US-PATENT-4,392,920
		US-PATENT-4,377,343			US-PATENT-APPL-SN-254688			NASA-CASE-LEW-12876-2
		NASA-CASE-NPO-15904-1			US-PATENT-CLASS-128-DIG.13			US-PATENT-APPL-SN-393583
N83-24572* #	c 25	US-PATENT-APPL-SN-465369	N83-28064* #	c 18	US-PATENT-CLASS-604-114	N83-29650* #	c 35	NASA-CASE-LEW-12508-3
		NASA-CASE-NPO-16135-1			US-PATENT-CLASS-604-151			US-PATENT-APPL-SN-235868
		US-PATENT-APPL-SN-470114			US-PATENT-CLASS-73-204			US-PATENT-CLASS-62-3
		NASA-CASE-LEW-13834-1			US-PATENT-4,384,578			US-PATENT-4,392,356
N83-24639* #	c 26	US-PATENT-APPL-SN-478131	N83-28240* #	c 27	NASA-CASE-MSC-18759-1	N83-29651* #	c 35	NASA-CASE-MFS-25242-1
		NASA-CASE-LAR-12363-2			US-PATENT-APPL-SN-233270			US-PATENT-APPL-SN-246773
		US-PATENT-APPL-SN-377892			US-PATENT-CLASS-128-660			US-PATENT-CLASS-374-17
		US-PATENT-CLASS-250-388			US-PATENT-CLASS-129-663			US-PATENT-CLASS-73-863.11
N83-24763* #	c 33	US-PATENT-4,379,970	N83-28281* #	c 31	US-PATENT-CLASS-73-597	N83-29680* #	c 36	US-PATENT-4,389,904
		NASA-CASE-MFS-25509-1			US-PATENT-4,383,533			NASA-CASE-LAR-12531-1
		US-PATENT-APPL-SN-297486			NASA-CASE-FRC-11072-1			US-PATENT-APPL-SN-282191
		US-PATENT-CLASS-156-DIG.62			US-PATENT-APPL-SN-230613			US-PATENT-CASE-368-10
N83-24828* #	c 35	US-PATENT-CLASS-34-57A	N83-28319* #	c 33	US-PATENT-CASE-179-146-R	N83-29681* #	c 36	US-PATENT-CASE-368-118
		US-PATENT-CLASS-432-227			US-PATENT-CASE-179-179			US-PATENT-CASE-368-119
		US-PATENT-CLASS-432-58			US-PATENT-CASE-367-906			US-PATENT-CASE-368-120
		US-PATENT-4,378,209			US-PATENT-4,388,502			US-PATENT-CASE-368-6
N83-25217* #	c 45	US-PATENT-CASE-368-6	N83-28356* #	c 34	NASA-CASE-GSC-12551-1	N83-29783* #	c 43	US-PATENT-CASE-368-9
		NASA-CASE-NPO-15220-1			US-PATENT-APPL-SN-182881			US-PATENT-4,392,749
		US-PATENT-APPL-SN-246777			US-PATENT-APPL-SN-182881			NASA-CASE-MSC-18936-1
		US-PATENT-CLASS-220-335			US-PATENT-CLASS-244-169			US-PATENT-APPL-SN-325082
N83-25346* #	c 52	US-PATENT-CLASS-73-863.31	N83-28573* #	c 44	US-PATENT-CLASS-244-170	N83-30222* #	c 74	US-PATENT-CLASS-55-194
		US-PATENT-CLASS-73-863.83			US-PATENT-4,386,750			US-PATENT-CLASS-55-202
		US-PATENT-CLASS-73-864.63			NASA-CASE-ARC-11425-1			US-PATENT-4,392,874
		US-PATENT-4,377,949			US-PATENT-APPL-SN-493864			NASA-CASE-MFS-25315-1
N83-25378* #	c 60	NASA-CASE-NPO-15197-1	N83-28574* #	c 44	NASA-CASE-LAR-12775-1	N83-31603* #	c 07	US-PATENT-APPL-SN-224232
		US-PATENT-APPL-SN-263957			US-PATENT-APPL-SN-308201			US-PATENT-CASE-356-129
		US-PATENT-CLASS-128-303B			US-PATENT-CLASS-524-104			US-PATENT-4,391,518
		US-PATENT-CLASS-128-774			US-PATENT-CLASS-524-173			NASA-CASE-GSC-12609-2
N83-25789* #	c 24	US-PATENT-CLASS-128-782	N83-28574* #	c 44	US-PATENT-CLASS-524-233	N83-31743* #	c 25	US-PATENT-APPL-SN-481020
		US-PATENT-4,378,813			US-PATENT-CLASS-524-726			NASA-CASE-LAR-13053-1
		NASA-CASE-GSC-12223-1			US-PATENT-CLASS-525-181			US-PATENT-APPL-SN-508372
		US-PATENT-APPL-SN-041143			US-PATENT-CLASS-525-183			NASA-CASE-ARC-11264-2
N83-25789* #	c 24	US-PATENT-CLASS-364-200	N83-28574* #	c 44	US-PATENT-CLASS-525-474	N83-31795* #	c 26	US-PATENT-APPL-SN-465370
		US-PATENT-4,380,046			US-PATENT-4,389,504			NASA-CASE-NPO-15828-1
		NASA-CASE-ARC-11261-1			US-PATENT-4,389,504			US-PATENT-APPL-SN-411767
		US-PATENT-APPL-SN-282129			NASA-CASE-ARC-11363-1			NASA-CASE-LEW-14586-1
N83-25789* #	c 24	US-PATENT-CLASS-423-447.2	N83-28574* #	c 44	US-PATENT-APPL-SN-500046	N83-31854* #	c 27	US-PATENT-APPL-SN-315587
		US-PATENT-CLASS-423-447.6			NASA-CASE-MFS-25302-1			US-PATENT-CLASS-201-17
		US-PATENT-CLASS-423-447.7			US-PATENT-APPL-SN-243683			US-PATENT-CLASS-44-1SR
		US-PATENT-4,385,043			US-PATENT-CLASS-322-29			US-PATENT-4,391,609
N83-26078* #	c 37	US-PATENT-CLASS-322-35	N83-28574* #	c 44	US-PATENT-CLASS-322-35	N83-31855* #	c 27	NASA-CASE-LEW-13343
		US-PATENT-CLASS-322-47			US-PATENT-CLASS-322-47			US-PATENT-APPL-SN-293418
		US-PATENT-CLASS-322-95			US-PATENT-CLASS-322-95			US-PATENT-CLASS-427-318
		US-PATENT-4,388,585			US-PATENT-4,388,585			US-PATENT-CLASS-427-419.2
N83-27058* #	c 31	US-PATENT-CLASS-415-17	N83-28574* #	c 44	US-PATENT-CLASS-415-17	N83-31895* #	c 31	US-PATENT-CLASS-428-450
		US-PATENT-CLASS-415-178			US-PATENT-CLASS-415-178			US-PATENT-CLASS-428-469
		US-PATENT-CLASS-415-47			US-PATENT-CLASS-415-47			US-PATENT-CLASS-428-641
		US-PATENT-4,338,061			US-PATENT-4,338,061			US-PATENT-CLASS-428-650
N83-27058* #	c 31	NASA-CASE-NPO-15304-1	N83-28574* #	c 44	NASA-CASE-GSC-12553-1	N83-31896* #	c 31	US-PATENT-CLASS-428-680
		US-PATENT-APPL-SN-315587			US-PATENT-APPL-SN-106192			US-PATENT-4,374,183
		US-PATENT-CLASS-201-17			US-PATENT-CLASS-165-185			NASA-CASE-ARC-11360-1
		US-PATENT-CLASS-44-1SR			US-PATENT-CLASS-165-32			US-PATENT-APPL-SN-288267
N83-27085* #	c 32	US-PATENT-CLASS-415-1R	N83-28574* #	c 44	US-PATENT-CLASS-165-76	N83-31896* #	c 31	US-PATENT-CLASS-548-413
		US-PATENT-CLASS-408-61			US-PATENT-4,388,985			US-PATENT-CLASS-548-415
		US-PATENT-CLASS-409-131			NASA-CASE-LAR-12495-1			US-PATENT-4,395,557
		US-PATENT-4,383,785			US-PATENT-APPL-SN-263830			NASA-CASE-LEW-1335901
N83-27085* #	c 32	US-PATENT-CLASS-310-11	N83-28574* #	c 44	US-PATENT-CLASS-310-11	N83-31896* #	c 31	US-PATENT-APPL-SN-229233
		US-PATENT-4,388,542			US-PATENT-CLASS-435-34			US-PATENT-CLASS-427-219.2
		NASA-CASE-GSC-12697-1			US-PATENT-CLASS-435-38			US-PATENT-CLASS-427-340
		US-PATENT-APPL-SN-308204			US-PATENT-CLASS-435-39			US-PATENT-CLASS-427-423
N83-27126* #	c 33	US-PATENT-CLASS-308-10	N83-28574* #	c 44	US-PATENT-CLASS-308-10	N83-31896* #	c 31	US-PATENT-CLASS-428-623
		US-PATENT-CLASS-310-15			US-PATENT-CLASS-435-807			US-PATENT-CLASS-428-638
		US-PATENT-CLASS-417-417			US-PATENT-4,386,157			US-PATENT-4,335,190
		US-PATENT-CLASS-62-6			NASA-CASE-KSC-11104-1			NASA-CASE-MFS-25134-1
N83-27144* #	c 34	US-PATENT-4,389,849	N83-28574* #	c 44	US-PATENT-APPL-SN-153245	N83-31896* #	c 31	US-PATENT-APPL-SN-195226
		NASA-CASE-ARC-11322-1			US-PATENT-CLASS-350-96.16			US-PATENT-CLASS-24-214
		US-PATENT-APPL-SN-315278			US-PATENT-CLASS-455-612			US-PATENT-CLASS-244-159
		US-PATENT-CLASS-435-3			US-PATENT-4,381,881			US-PATENT-4,381,583
N83-27184* #	c 35	US-PATENT-CLASS-435-34	N83-29032* #	c 74	US-PATENT-APPL-SN-153245	N83-31896* #	c 31	NASA-CASE-NPO-14596-3
		US-PATENT-CLASS-435-38			US-PATENT-APPL-SN-153245			US-PATENT-APPL-SN-303671
		US-PATENT-CLASS-435-39			US-PATENT-CLASS-350-96.16			
		US-PATENT-CLASS-435-807			US-PATENT-CLASS-455-612			
N83-27344* #	c 44	NASA-CASE-MFS-25403-1	N83-29303* #	c 18	US-PATENT-4,381,881	N83-31896* #	c 31	
		US-PATENT-APPL-SN-248745			NASA-CASE-MFS-25403-1			
		US-PATENT-CLASS-244-115			US-PATENT-APPL-SN-248745			
		US-PATENT-CLASS-244-161			US-PATENT-CLASS-244-115			
N83-27344* #	c 44	US-PATENT-CLASS-269-152	N83-29303* #	c 18	US-PATENT-CLASS-269-242	N83-31896* #	c 31	
		US-PATENT-CLASS-269-242			US-PATENT-CLASS-269-242			
		US-PATENT-CLASS-269-244			US-PATENT-CLASS-269-244			
		US-PATENT-CLASS-269-244			US-PATENT-CLASS-269-244			

		US-PATENT-CLASS-264-5	N83-32516* #	c 71	NASA-CASE-NPO-15522-1	US-PATENT-APPL-SN-325886
		US-PATENT-CLASS-264-9			US-PATENT-APPL-SN-303672	US-PATENT-CLASS-361-90
		US-PATENT-CLASS-425-6			US-PATENT-CLASS-60-721	US-PATENT-CLASS-318-729
		US-PATENT-CLASS-65-142			US-PATENT-CLASS-73-505	US-PATENT-CLASS-318-798
		US-PATENT-CLASS-65-214			US-PATENT-4,393,706	US-PATENT-CLASS-318-806
		US-PATENT-CLASS-65-22	N83-32577* #	c 74	NASA-CASE-GSC-12614-1	US-PATENT-CLASS-361-100
		US-PATENT-4,344,787			US-PATENT-APPL-SN-195227	US-PATENT-CLASS-363-54
N83-31897* #	c 31	NASA-CASE-NPO-15251-1			US-PATENT-CLASS-356-353	US-PATENT-4,400,657
		US-PATENT-APPL-SN-229239			US-PATENT-CLASS-356-363	N83-34191* #
		US-PATENT-CLASS-337-14			US-PATENT-4,395,123	c 33
		US-PATENT-CLASS-62-48	N83-33882* #	c 06	NASA-CASE-FRC-11043-1	NASA-CASE-GSC-12646-1
		US-PATENT-CLASS-62-514R			US-PATENT-APPL-SN-242790	US-PATENT-APPL-SN-284290
		US-PATENT-4,366,680			US-PATENT-CLASS-33-322	US-PATENT-CLASS-330-289
N83-31918* #	c 32	NASA-CASE-NPO-14525-2			US-PATENT-CLASS-74-5,34	US-PATENT-CLASS-330-310
		US-PATENT-APPL-SN-165910			US-PATENT-4,387,513	US-PATENT-4,401,953
		US-PATENT-CLASS-343-5CM	N83-33884* #	c 07	NASA-CASE-ARC-10812-1	N83-34221* #
		US-PATENT-CLASS-343-9PS			US-PATENT-APPL-SN-657903	c 34
		US-PATENT-CLASS-367-88			US-PATENT-CLASS-181-213	NASA-CASE-LAR-12393-1
		US-PATENT-4,355,311			US-PATENT-CLASS-239-265,17	US-PATENT-APPL-SN-145208
N83-31952* #	c 33	NASA-CASE-LEW-13429-1			US-PATENT-CLASS-60-262	US-PATENT-CLASS-165-27
		US-PATENT-APPL-SN-220212			US-PATENT-CLASS-60-269	US-PATENT-CLASS-165-61
		US-PATENT-CLASS-315-3			US-PATENT-CLASS-60-271	US-PATENT-CLASS-165-80E
		US-PATENT-CLASS-315-4			US-PATENT-4,372,110	US-PATENT-CLASS-374-46
		US-PATENT-CLASS-315-5	N83-33950* #	c 24	NASA-CASE-NPO-14987-1	US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-315-5,35			US-PATENT-APPL-SN-164-584	US-PATENT-4,346,754
		US-PATENT-CLASS-315-5,38			US-PATENT-CLASS-427-215	N83-34272* #
		US-PATENT-4,395,656			US-PATENT-CLASS-427-241	c 35
N83-31953* #	c 33	NASA-CASE-MFS-25215-1			US-PATENT-CLASS-428-367	NASA-CASE-ARC-11317-1
		US-PATENT-APPL-SN-291131			US-PATENT-CLASS-428-375	US-PATENT-APPL-SN-229231
		US-PATENT-CLASS-318-800			US-PATENT-CLASS-428-392	US-PATENT-CLASS-340-518
		US-PATENT-CLASS-318-803			US-PATENT-CLASS-428-902	US-PATENT-CLASS-340-566
		US-PATENT-CLASS-318-809			US-PATENT-CLASS-428-903	US-PATENT-4,374,378
		US-PATENT-4,394,610	N83-33977* #	c 25	NASA-CASE-ARC-11326-1	N83-34304* #
N83-31954* #	c 33	NASA-CASE-NPO-14940-1			US-PATENT-APPL-SN-178192	c 36
		US-PATENT-APPL-SN-135038			US-PATENT-CLASS-252-5	NASA-CASE-ARC-11312-1
		US-PATENT-CLASS-324-466			US-PATENT-CLASS-423-419P	US-PATENT-APPL-SN-234224
		US-PATENT-CLASS-73-861,05			US-PATENT-CLASS-423-600	US-PATENT-CLASS-356-1
		US-PATENT-4,338,568			US-PATENT-CLASS-424-156	US-PATENT-CLASS-356-4
N83-31993* #	c 34	NASA-CASE-NPO-15400-1			US-PATENT-4,356,157	US-PATENT-CLASS-358-104
		US-PATENT-APPL-SN-246774	N83-34039* #	c 27	NASA-CASE-GSC-12686-1	US-PATENT-CLASS-358-109
		US-PATENT-CLASS-250-573			US-PATENT-APPL-SN-293412	US-PATENT-CLASS-434-38
		US-PATENT-CLASS-73-64,4			US-PATENT-CLASS-427-322	US-PATENT-CLASS-434-4
		US-PATENT-4,391,129			US-PATENT-CLASS-427-340	US-PATENT-4,391,514
N83-32026* #	c 35	NASA-CASE-LAR-12728-1			US-PATENT-CLASS-427-352	N83-34323* #
		US-PATENT-APPL-SN-408575			US-PATENT-CLASS-427-400	c 37
		US-PATENT-CLASS-248-636			US-PATENT-CLASS-427-407,1	NASA-CASE-GSC-12726-1
		US-PATENT-CLASS-248-638			US-PATENT-4,362,769	US-PATENT-APPL-SN-364093
		US-PATENT-CLASS-62-295			NASA-CASE-LAR-12838-1	US-PATENT-CLASS-308-10
		US-PATENT-CLASS-62-514 R	N83-34040* #	c 27	US-PATENT-APPL-SN-320621	US-PATENT-4,381,375
		US-PATENT-4,394,819			US-PATENT-CLASS-526-259	N83-34448* #
N83-32067* #	c 37	NASA-CASE-GSC-12517-1			US-PATENT-CLASS-526-285	c 44
		US-PATENT-APPL-SN-214361			US-PATENT-CLASS-528-12	NASA-CASE-LAR-12719-1
		US-PATENT-CLASS-104-282			US-PATENT-CLASS-528-125	US-PATENT-APPL-SN-308007
		US-PATENT-CLASS-104-290			US-PATENT-CLASS-528-126	US-PATENT-CLASS-350-166
		US-PATENT-CLASS-308-10			US-PATENT-CLASS-528-128	US-PATENT-CLASS-428-312,6
		US-PATENT-CLASS-310-12			US-PATENT-CLASS-528-220	US-PATENT-CLASS-428-325
		US-PATENT-4,387,935			US-PATENT-CLASS-528-222	US-PATENT-CLASS-428-427
N83-32081* #	c 39	NASA-CASE-LAR-12602-1			US-PATENT-CLASS-528-228	US-PATENT-CLASS-428-428
		US-PATENT-APPL-SN-210506			US-PATENT-CLASS-528-229	US-PATENT-4,381,333
		US-PATENT-CLASS-374-51			US-PATENT-CLASS-528-238	N83-34449* #
		US-PATENT-CLASS-73-818			US-PATENT-4,375,536	c 44
		US-PATENT-CLASS-73-822	N83-34041* #	c 27	NASA-CASE-LAR-12858-1	NASA-CASE-LAR-12719-1
		US-PATENT-CLASS-73-856			US-PATENT-APPL-SN-407240	US-PATENT-APPL-SN-367134
		US-PATENT-CLASS-73-860			US-PATENT-CLASS-164-331,12	US-PATENT-CLASS-126-901
		US-PATENT-4,393,716			US-PATENT-CLASS-264-137	US-PATENT-CLASS-204-33
N83-32175* #	c 44	NASA-CASE-LEW-12443-1			US-PATENT-CLASS-264-258	US-PATENT-CLASS-204-35N
		US-PATENT-APPL-SN-235797			US-PATENT-CLASS-264-331,46	US-PATENT-4,397,716
		US-PATENT-CLASS-310-306			US-PATENT-CLASS-528-222	N83-34796* #
		US-PATENT-4,373,142			US-PATENT-CLASS-528-226	c 76
N83-32176* #	c 44	NASA-CASE-LEW-13171-2			US-PATENT-4,398,021	NASA-CASE-LEW-12582-1
		US-PATENT-APPL-SN-333537			NASA-CASE-NPO-15202-1	US-PATENT-APPL-SN-397281
		US-PATENT-CLASS-29-623,5	N83-34043* #	c 27	US-PATENT-APPL-SN-233271	US-PATENT-CLASS-310-332
		US-PATENT-CLASS-429-144			US-PATENT-CLASS-384-124	US-PATENT-CLASS-310-800
		US-PATENT-CLASS-429-251			US-PATENT-CLASS-523-440	US-PATENT-CLASS-428-294
		US-PATENT-CLASS-429-254			US-PATENT-CLASS-523-443	US-PATENT-CLASS-428-421
		US-PATENT-4,371,596			US-PATENT-4,395,503	US-PATENT-CLASS-428-422
N83-32177* #	c 44	NASA-CASE-LEW-13401-2			NASA-CASE-ARC-11246-1	US-PATENT-4,400,642
		US-PATENT-APPL-SN-359388	N83-34073* #	c 31	US-PATENT-APPL-SN-136660	N83-35176* #
		US-PATENT-CLASS-136-249			US-PATENT-CLASS-156-264	c 31
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-156-344	NASA-CASE-NPO-15070-1
		US-PATENT-4,376,872			US-PATENT-CLASS-273-240	US-PATENT-APPL-SN-403847
N83-32232* #	c 47	NASA-CASE-NPO-14936-1			US-PATENT-CLASS-434-403	US-PATENT-CLASS-264-12
		US-PATENT-APPL-SN-163837			US-PATENT-CLASS-434-88	US-PATENT-CLASS-264-24
		US-PATENT-CLASS-250-203R			US-PATENT-4,385,949	US-PATENT-CLASS-264-5
		US-PATENT-CLASS-356-222	N83-34189* #	c 33	NASA-CASE-GSC-12566-1	US-PATENT-CLASS-425-10
		US-PATENT-4,355,896			US-PATENT-APPL-SN-276748	US-PATENT-CLASS-425-7
N83-32342* #	c 60	NASA-CASE-NPO-15342-1			US-PATENT-CLASS-315-208	US-PATENT-CLASS-65-142
		US-PATENT-APPL-SN-258623			US-PATENT-CLASS-315-224	US-PATENT-CLASS-65-21,3
		US-PATENT-CLASS-364-200			US-PATENT-CLASS-315-225	US-PATENT-CLASS-65-21,4
		US-PATENT-CLASS-364-900			US-PATENT-CLASS-315-237	US-PATENT-CLASS-65-22
		US-PATENT-4,394,726			US-PATENT-CLASS-315-241R	US-PATENT-4,400,191
N83-32515* #	c 71	NASA-CASE-NPO-15453-1			US-PATENT-CLASS-372-25	N83-35177* #
		US-PATENT-APPL-SN-314929			US-PATENT-4,398,129	c 31
		US-PATENT-CLASS-60-721			NASA-CASE-MFS-25607-1	NASA-CASE-LEW-13450-1
		US-PATENT-CLASS-73-505	N83-34190* #	c 33		US-PATENT-APPL-SN-328760
		US-PATENT-4,393,708				US-PATENT-CLASS-427-243
						US-PATENT-CLASS-427-247
						US-PATENT-CLASS-427-34
						US-PATENT-CLASS-427-423
						US-PATENT-4,402,992
						N83-35227* #
						c 33
						NASA-CASE-MFS-25209-1
						US-PATENT-APPL-SN-291132
						US-PATENT-CLASS-318-685
						US-PATENT-CLASS-318-798
						US-PATENT-CLASS-318-806
						US-PATENT-4,401,934
						N83-35307* #
						c 34
						NASA-CASE-GSC-12812-1
						US-PATENT-APPL-SN-434674
						US-PATENT-CLASS-165-104,26
						US-PATENT-CLASS-165-32
						US-PATENT-4,402,358
						N83-35338* #
						c 35
						NASA-CASE-LEW-13934-1
						US-PATENT-APPL-SN-212949

			US-PATENT-CLASS-228-103				US-PATENT-CLASS-350-445				US-PATENT-CLASS-156-235
			US-PATENT-CLASS-228-193				US-PATENT-4,407,563				US-PATENT-CLASS-156-294
			US-PATENT-CLASS-228-263.18				NASA-CASE-LAR-12843-1				US-PATENT-CLASS-156-391
			US-PATENT-CLASS-415-118		N84-11136* #	c 02	US-PATENT-APPL-SN-392096				US-PATENT-CLASS-156-423
			US-PATENT-4,402,447				US-PATENT-CLASS-244-35A				US-PATENT-CLASS-156-540
N83-35350* #	c 36		NASA-CASE-NPO-15201-1				US-PATENT-CLASS-244-35R				US-PATENT-CLASS-156-71
			US-PATENT-APPL-SN-246778				US-PATENT-CLASS-416-223R				US-PATENT-CLASS-338-2
			US-PATENT-CLASS-330-4				US-PATENT-CLASS-416-242				US-PATENT-4,407,686
			US-PATENT-CLASS-332-7.5				US-PATENT-4,412,664		N84-12444* #	c 35	NASA-CASE-LAR-12706-1
			US-PATENT-CLASS-333-24.2				US-PATENT-4,412,664				US-PATENT-APPL-SN-210498
			US-PATENT-4,399,415		N84-11213* #	c 24	NASA-CASE-ARC-11418-1				US-PATENT-CLASS-324-250
							US-PATENT-APPL-SN-452464				US-PATENT-CLASS-328-230
N83-35781* #	c 71		NASA-CASE-NPO-15334-1				US-PATENT-CLASS-523-435				US-PATENT-CLASS-372-74
			US-PATENT-APPL-SN-341406				US-PATENT-CLASS-523-456				US-PATENT-4,414,509
			US-PATENT-CLASS-210-748				US-PATENT-CLASS-528-110		N84-12445* #	c 35	NASA-CASE-LAR-12882-1
			US-PATENT-CLASS-252-361				US-PATENT-CLASS-528-361				US-PATENT-APPL-SN-267179
			US-PATENT-CLASS-366-114				US-PATENT-4,410,682				US-PATENT-CLASS-364-415
			US-PATENT-CLASS-55-15		N84-11214* #	c 24	NASA-CASE-LAR-12807-1				US-PATENT-CLASS-73-646
			US-PATENT-CLASS-55-277				US-PATENT-APPL-SN-280155				US-PATENT-CLASS-73-658
			US-PATENT-CLASS-55-38				US-PATENT-CLASS-228-157				US-PATENT-4,413,522
			US-PATENT-CLASS-55-52				US-PATENT-CLASS-228-181				
			US-PATENT-CLASS-65-134				US-PATENT-CLASS-228-212		N84-12491* #	c 37	NASA-CASE-GSC-12619-1
			US-PATENT-4,398,925				US-PATENT-CLASS-244-119				US-PATENT-APPL-SN-225499
N83-35888* #	c 76		NASA-CASE-NPO-15530-1				US-PATENT-CLASS-244-123				US-PATENT-CLASS-101-4078P
			US-PATENT-APPL-SN-364092				US-PATENT-CLASS-428-593				US-PATENT-CLASS-269-3
			US-PATENT-CLASS-156-DIG.6				US-PATENT-CLASS-52-806				US-PATENT-4,393,777
			US-PATENT-CLASS-156-DIG.73				US-PATENT-CLASS-52-808		N84-12492* #	c 37	NASA-CASE-GSC-12822-1
			US-PATENT-CLASS-156-608				US-PATENT-4,411,380				US-PATENT-APPL-SN-24368A
			US-PATENT-4,401,505				US-PATENT-4,411,380				US-PATENT-CLASS-308-24
N83-35992* #	c 01		NASA-CASE-LAR-12624-1		N84-11497* #	c 37	NASA-CASE-MFS-25678-1				US-PATENT-4,405,184
			US-PATENT-APPL-SN-259209				US-PATENT-APPL-SN-378533				NASA-CASE-LAR-12923-1
			US-PATENT-CLASS-102-378				US-PATENT-CLASS-277-116.6				US-PATENT-APPL-SN-383063
			US-PATENT-CLASS-244-137P				US-PATENT-CLASS-277-124				US-PATENT-CLASS-416-117
			US-PATENT-CLASS-89-18				US-PATENT-CLASS-277-164				US-PATENT-CLASS-416-132B
			US-PATENT-4,407,468				US-PATENT-CLASS-277-177				US-PATENT-4,415,311
N83-36029* #	c 07		NASA-CASE-LEW-13142-1				US-PATENT-CLASS-277-190				
			US-PATENT-APPL-SN-132364				US-PATENT-4,410,189		N84-12654* #	c 45	NASA-CASE-NSTL-10
			US-PATENT-CLASS-60-39.07				NASA-CASE-MFS-25740-1				US-PATENT-APPL-SN-335036
			US-PATENT-4,404,793				US-PATENT-APPL-SN-371352				US-PATENT-CLASS-210-151
N83-36118* #	c 25		NASA-CASE-ARC-11252-1		N84-11744* #	c 52	US-PATENT-CLASS-128-DIG.25				US-PATENT-CLASS-210-602
			US-PATENT-APPL-SN-317977				US-PATENT-CLASS-128-1R				US-PATENT-CLASS-210-605
			US-PATENT-CLASS-169-47				US-PATENT-CLASS-128-346				US-PATENT-CLASS-210-617
			US-PATENT-CLASS-252-2				US-PATENT-4,408,597				US-PATENT-CLASS-47-58
			US-PATENT-CLASS-252-5				NASA-CASE-MSC-18223-2				US-PATENT-4,415,450
			US-PATENT-4,406,797		N84-11758* #	c 54	US-PATENT-APPL-SN-219681		N84-12968* #	c 76	NASA-CASE-NPO-15811-1
N83-36220* #	c 27		NASA-CASE-MFS-25436-1				US-PATENT-APPL-SN-368187				US-PATENT-APPL-SN-547175
			US-PATENT-APPL-SN-280151				US-PATENT-CLASS-604-368				NASA-CASE-LAR-12638-1
			US-PATENT-CLASS-156-DIG.73				US-PATENT-CLASS-604-378		N84-14132* #	c 04	US-PATENT-APPL-SN-367187
			US-PATENT-CLASS-156-DIG.89				US-PATENT-CLASS-604-396				US-PATENT-CLASS-33-DIG.3
			US-PATENT-CLASS-156-600				US-PATENT-4,338,371				US-PATENT-CLASS-33-348
			US-PATENT-CLASS-156-610				US-PATENT-4,411,660				US-PATENT-CLASS-33-356
			US-PATENT-CLASS-165-2				NASA-CASE-GSC-12640-1				US-PATENT-CLASS-33-361
			US-PATENT-CLASS-165-58				US-PATENT-APPL-SN-267178				US-PATENT-4,418,480
			US-PATENT-CLASS-219-343				US-PATENT-CLASS-250-363R		N84-14322* #	c 27	NASA-CASE-ARC-11400-1
			US-PATENT-CLASS-219-354				US-PATENT-CLASS-250-363S				US-PATENT-APPL-SN-441899
			US-PATENT-CLASS-219-390				US-PATENT-CLASS-250-368				US-PATENT-CLASS-428-246
			US-PATENT-CLASS-219-411				US-PATENT-CLASS-378-2				US-PATENT-CLASS-428-260
			US-PATENT-CLASS-350-316				US-PATENT-4,404,469				US-PATENT-CLASS-428-367
			US-PATENT-4,408,658				NASA-CASE-NPO-15375-1				US-PATENT-CLASS-428-408
N83-36355* #	c 33		NASA-CASE-GSC-12630-1		N84-11921* #	c 74	US-PATENT-APPL-SN-210405				US-PATENT-CLASS-428-473.5
			US-PATENT-APPL-SN-308009				US-PATENT-CLASS-250-227				US-PATENT-CLASS-428-902
			US-PATENT-CLASS-343-100AP				US-PATENT-CLASS-3-1.1				US-PATENT-CLASS-428-920
			US-PATENT-CLASS-343-840				US-PATENT-CLASS-350-96.10				US-PATENT-CLASS-524-494
			US-PATENT-4,407,001				US-PATENT-CLASS-350-96.15				US-PATENT-CLASS-524-496
N83-36356* #	c 33		NASA-CASE-KSC-11170-1				US-PATENT-CLASS-73-432T				US-PATENT-CLASS-524-500
			US-PATENT-APPL-SN-284288				US-PATENT-4,405,197				US-PATENT-CLASS-524-530
			US-PATENT-CLASS-330-110				NASA-CASE-LAR-13255-1				US-PATENT-CLASS-525-282
			US-PATENT-CLASS-330-282		N84-12092* #	c 02	US-PATENT-APPL-SN-550681				US-PATENT-CLASS-525-287
			US-PATENT-4,406,989				NASA-CASE-NPO-16171-1-CU				US-PATENT-4,421,820
N83-36357* #	c 33		NASA-CASE-LAR-12654-1				US-PATENT-APPL-SN-551536				
			US-PATENT-APPL-SN-234225				NASA-CASE-LAR-12615-1		N84-14323* #	c 27	NASA-CASE-LAR-12881-1
			US-PATENT-CLASS-368-184				US-PATENT-APPL-SN-263829				US-PATENT-APPL-SN-361215
			US-PATENT-CLASS-368-200				US-PATENT-CLASS-244-13				US-PATENT-CLASS-206-447
			US-PATENT-CLASS-368-201				US-PATENT-CLASS-244-45R				US-PATENT-CLASS-206-582
			US-PATENT-4,407,589				US-PATENT-CLASS-244-53R				US-PATENT-CLASS-428-202
N83-36482* #	c 37		NASA-CASE-MSC-18791-1				US-PATENT-CLASS-244-55				US-PATENT-CLASS-428-347
			US-PATENT-APPL-SN-248746				US-PATENT-CLASS-244-91				US-PATENT-CLASS-428-40
			US-PATENT-CLASS-29-446				US-PATENT-4,415,133				US-PATENT-CLASS-428-78
			US-PATENT-CLASS-73-862.54				NASA-CASE-ARC-11426-1		N84-14324* #	c 27	NASA-CASE-MSC-18382-2
			US-PATENT-CLASS-81-55				US-PATENT-APPL-SN-526741				US-PATENT-APPL-SN-241155
			US-PATENT-CLASS-81-57.38				NASA-CASE-NPO-15458-1				US-PATENT-CLASS-524-371
			US-PATENT-4,407,165				US-PATENT-APPL-SN-376306				US-PATENT-4,395,511
N83-36483* #	c 37		NASA-CASE-MSC-18807-1				US-PATENT-CLASS-204-DIG.3				NASA-CASE-GSC-12650-1
			US-PATENT-APPL-SN-266688				US-PATENT-CLASS-204-129				US-PATENT-APPL-SN-301077
			US-PATENT-CLASS-123-197R				US-PATENT-CLASS-204-242				US-PATENT-CLASS-330-107
			US-PATENT-CLASS-123-78E				US-PATENT-CLASS-204-278				US-PATENT-CLASS-330-109
			US-PATENT-4,406,256				US-PATENT-CLASS-204-290R				US-PATENT-4,417,215
N83-36484* #	c 37		NASA-CASE-NPO-15482-1				US-PATENT-CLASS-427-443.2				NASA-CASE-LEW-13286-1
			US-PATENT-APPL-SN-526739				US-PATENT-CLASS-429-111				US-PATENT-APPL-SN-272406
N83-36846* #	c 71		NASA-CASE-NPO-15435-1				US-PATENT-4,414,080				US-PATENT-CLASS-252-182.1
			US-PATENT-APPL-SN-272837				NASA-CASE-MFS-25631-1				US-PATENT-CLASS-429-206
			US-PATENT-CLASS-308-10				US-PATENT-APPL-SN-308203				US-PATENT-CLASS-429-229
			US-PATENT-CLASS-73-505				US-PATENT-CLASS-239-426				US-PATENT-4,418,130
			US-PATENT-4,402,221				US-PATENT-4,413,784		N84-14423* #	c 33	NASA-CASE-MFS-25211-2
N83-36898* #	c 74		NASA-CASE-GSC-12683-1				NASA-CASE-FRC-11068-1				US-PATENT-APPL-SN-432057
			US-PATENT-APPL-SN-333535				US-PATENT-APPL-SN-322314				US-PATENT-CLASS-339-258RR
			US-PATENT-CLASS-350-173				US-PATENT-CLASS-156-215				US-PATENT-CLASS-339-262RR
							US-PATENT-CLASS-156-230				US-PATENT-CLASS-339-64M

		US-PATENT-4,421,371		US-PATENT-CLASS-363-65		US-PATENT-CLASS-55-466
N84-14424* #	c 33	NASA-CASE-MFS-25477-1		US-PATENT-CLASS-363-67		US-PATENT-CLASS-55-6
		US-PATENT-APPL-SN-243683		US-PATENT-CLASS-363-71		US-PATENT-CLASS-55-96
		US-PATENT-APPL-SN-297524		US-PATENT-4,426,678		US-PATENT-CLASS-60-275
		US-PATENT-APPL-SN-350472	N84-16454* #	NASA-CASE-GSC-12645-1		US-PATENT-CLASS-60-303
		US-PATENT-CLASS-318-729		US-PATENT-APPL-SN-284314		US-PATENT-CLASS-60-311
		US-PATENT-CLASS-318-798		US-PATENT-CLASS-324-79R		US-PATENT-4,376,637
		US-PATENT-CLASS-318-806		US-PATENT-CLASS-324-83A	N84-20522* #	NASA-CASE-LAR-12984-1
		US-PATENT-4,417,190		US-PATENT-CLASS-324-83R		US-PATENT-APPL-SN-578387
N84-14461* #	c 34	NASA-CASE-GSC-12771-1		US-PATENT-CLASS-328-133	N84-20649* #	NASA-CASE-LAR-12887-1
		US-PATENT-APPL-SN-434672		US-PATENT-CLASS-330-289		US-PATENT-APPL-SN-582493
		US-PATENT-CLASS-165-32		US-PATENT-4,425,543	N84-20670* #	NASA-CASE-GSC-12880-1
		US-PATENT-CLASS-165-41	N84-16455* #	NASA-CASE-MFS-25616-1		US-PATENT-APPL-SN-590925
		US-PATENT-CLASS-165-96		US-PATENT-APPL-SN-325932	N84-20702* #	NASA-CASE-ARC-11512-1
		US-PATENT-4,420,035		US-PATENT-CLASS-318-799		US-PATENT-APPL-SN-569373
N84-14491* #	c 35	NASA-CASE-LAR-12686-1		US-PATENT-CLASS-323-243	N84-20808* #	NASA-CASE-ARC-11422-1
		US-PATENT-APPL-SN-249304		US-PATENT-CLASS-323-246		US-PATENT-APPL-SN-523991
		US-PATENT-CLASS-364-557		US-PATENT-4,426,614	N84-20859* #	NASA-CASE-LAR-13250-1
		US-PATENT-CLASS-364-558	N84-16456* #	NASA-CASE-NPO-15161-1		US-PATENT-APPL-SN-573162
		US-PATENT-CLASS-364-571		US-PATENT-APPL-SN-325083	N84-20860* #	NASA-CASE-MFS-25956-1
		US-PATENT-CLASS-73-714		US-PATENT-CLASS-427-216		US-PATENT-APPL-SN-580397
		US-PATENT-4,399,515		US-PATENT-CLASS-427-217	N84-22546* #	NASA-CASE-GSC-12508-1
N84-14509* #	c 36	NASA-CASE-GSC-12565-1		US-PATENT-CLASS-427-226		US-PATENT-APPL-SN-266253
		US-PATENT-APPL-SN-270763		US-PATENT-CLASS-427-376.6		US-PATENT-CLASS-343-356
		US-PATENT-CLASS-350-299		US-PATENT-CLASS-427-376.7		US-PATENT-CLASS-343-357
		US-PATENT-CLASS-356-345		US-PATENT-CLASS-427-436		US-PATENT-4,445,118
		US-PATENT-CLASS-372-100		US-PATENT-CLASS-427-437	N84-22551* #	NASA-CASE-LAR-12541-1
		US-PATENT-CLASS-372-108		US-PATENT-CLASS-427-58		US-PATENT-APPL-SN-315588
		US-PATENT-CLASS-372-93		US-PATENT-CLASS-427-75		US-PATENT-CLASS-244-212
		US-PATENT-CLASS-372-94		US-PATENT-CLASS-427-88		US-PATENT-CLASS-244-215
		US-PATENT-CLASS-372-98		US-PATENT-CLASS-427-96		US-PATENT-CLASS-244-216
		US-PATENT-4,420,836		US-PATENT-4,386,346		US-PATENT-CLASS-244-219
N84-14583* #	c 44	NASA-CASE-NPO-15100-1	N84-16523* #	NASA-CASE-LAR-12007-3		US-PATENT-4,444,368
		US-PATENT-APPL-SN-259211		US-PATENT-APPL-SN-352831	N84-22559* #	NASA-CASE-LEW-13622-1
		US-PATENT-CLASS-138-42		US-PATENT-CLASS-33-293		US-PATENT-APPL-SN-350473
		US-PATENT-CLASS-251-127		US-PATENT-4,428,122		US-PATENT-CLASS-364-558
		US-PATENT-4,418,722	N84-16542* #	NASA-CASE-LAR-12870-1		US-PATENT-CLASS-73-115
N84-14873* #	c 71	NASA-CASE-LAR-11903-2		US-PATENT-APPL-SN-317658		US-PATENT-4,428,226
		US-PATENT-APPL-SN-238791		US-PATENT-CLASS-372-55	N84-22560* #	NASA-CASE-LEW-13654-1
		US-PATENT-APPL-SN-753971		US-PATENT-CLASS-372-79		US-PATENT-APPL-SN-245571
		US-PATENT-CLASS-239-265.17		US-PATENT-4,424,592		US-PATENT-CLASS-416-224
		US-PATENT-4,398,667	N84-16560* #	NASA-CASE-MFS-25510-1		US-PATENT-CLASS-416-233
N84-15183* #	c 20	NASA-CASE-MFS-25946-1		US-PATENT-APPL-SN-293414		US-PATENT-CLASS-416-92
		US-PATENT-APPL-SN-561432		US-PATENT-CLASS-248-228		US-PATENT-CLASS-416-97R
N84-15537* #	c 36	NASA-CASE-NPO-16271-1		US-PATENT-4,422,609		US-PATENT-4,411,597
		US-PATENT-APPL-SN-556514	N84-16561* #	NASA-CASE-LAR-12785-1	N84-22601* #	NASA-CASE-MSC-20254-1
N84-15960* #	c 74	NASA-CASE-GSC-12849-1		US-PATENT-APPL-SN-297488		US-PATENT-APPL-SN-418137
		US-PATENT-APPL-SN-556481		US-PATENT-CLASS-239-568		US-PATENT-CLASS-244-158A
N84-16221* #	c 09	NASA-CASE-ARC-11504-1		US-PATENT-CLASS-241-95		US-PATENT-CLASS-52-404
		US-PATENT-APPL-SN-556481		US-PATENT-CLASS-406-155		US-PATENT-CLASS-52-506
N84-16231* #	c 15	NASA-CASE-LAR-12751-1		US-PATENT-4,428,703		US-PATENT-4,439,968
		US-PATENT-APPL-SN-338386	N84-16803* #	NASA-CASE-MSC-20202-1	N84-22605* #	NASA-CASE-MSC-18969-1
		US-PATENT-CLASS-73-167		US-PATENT-APPL-SN-414106		US-PATENT-APPL-SN-368189
		US-PATENT-CLASS-73-432R		US-PATENT-CLASS-128-1A		US-PATENT-CLASS-244-161
		US-PATENT-CLASS-73-9		US-PATENT-CLASS-128-15R		US-PATENT-CLASS-403-322
		US-PATENT-4,425,785		US-PATENT-CLASS-128-38		US-PATENT-4,431,333
N84-16250* #	c 18	NASA-CASE-LAR-13117-1		US-PATENT-4,421,109	N84-22609* #	NASA-CASE-MFS-15429-1
		US-PATENT-APPL-SN-556512	N84-16940* #	NASA-CASE-NPO-15592-1		US-PATENT-APPL-SN-596959
N84-16255* #	c 23	NASA-CASE-NPO-15767-1		US-PATENT-APPL-SN-314702	N84-22610* #	NASA-CASE-MSC-20543-1
		US-PATENT-APPL-SN-315584		US-PATENT-CLASS-118-300		US-PATENT-APPL-SN-580574
		US-PATENT-CLASS-208-10		US-PATENT-CLASS-118-50	N84-22612* #	NASA-CASE-ARC-11505-1
		US-PATENT-CLASS-208-8LE		US-PATENT-CLASS-118-50.1		US-PATENT-APPL-SN-588036
		US-PATENT-4,388,171		US-PATENT-CLASS-118-50	N84-22695* #	NASA-CASE-LEW-13837-1
N84-16259* #	c 23	NASA-CASE-ARC-11511-1		US-PATENT-CLASS-118-57		US-PATENT-APPL-SN-495381
		US-PATENT-APPL-SN-565482		US-PATENT-CLASS-118-62		US-PATENT-CLASS-204-192C
N84-16262* #	c 24	NASA-CASE-MSC-16934-3		US-PATENT-CLASS-427-346		US-PATENT-CLASS-204-192R
		US-PATENT-APPL-SN-185868		US-PATENT-CLASS-427-421		US-PATENT-CLASS-204-192SP
		US-PATENT-APPL-SN-361711		US-PATENT-CLASS-427-426		US-PATENT-CLASS-423-DIG.10
		US-PATENT-APPL-SN-969757		US-PATENT-CLASS-427-57		US-PATENT-CLASS-423-414
		US-PATENT-CLASS-164-119		US-PATENT-CLASS-427-6		US-PATENT-CLASS-423-445
		US-PATENT-CLASS-264-118		US-PATENT-CLASS-65-213		US-PATENT-CLASS-423-446
		US-PATENT-CLASS-264-59		US-PATENT-4,425,376		US-PATENT-CLASS-423-449
		US-PATENT-CLASS-264-60	N84-16959* #	NASA-CASE-NPO-15547-1		US-PATENT-4,437,962
		US-PATENT-4,421,700		US-PATENT-APPL-SN-276076	N84-22709* #	NASA-CASE-NPO-15210-1
N84-16276* #	c 25	NASA-CASE-LEW-13426-1	N84-16986* #	NASA-CASE-MFS-26000-1		US-PATENT-APPL-SN-322312
		US-PATENT-APPL-SN-393588		US-PATENT-APPL-SN-571615		US-PATENT-CLASS-208-10
		US-PATENT-CLASS-110-186	N84-17555* #	NASA-CASE-NPO-15426-1		US-PATENT-CLASS-208-8LE
		US-PATENT-CLASS-110-262		US-PATENT-APPL-SN-196877		US-PATENT-4,443,321
		US-PATENT-CLASS-110-263		US-PATENT-CLASS-210-748	N84-22734* #	NASA-CASE-LEW-13349-1
		US-PATENT-CLASS-110-265		US-PATENT-CLASS-422-121		US-PATENT-APPL-SN-350476
		US-PATENT-CLASS-431-1		US-PATENT-CLASS-422-169		US-PATENT-CLASS-29-623.5
		US-PATENT-4,425,854		US-PATENT-CLASS-422-178		US-PATENT-CLASS-427-115
N84-16340* #	c 27	NASA-CASE-ARC-11421-1		US-PATENT-CLASS-422-186		US-PATENT-CLASS-427-125
		US-PATENT-APPL-SN-561702		US-PATENT-CLASS-55-DIG.25		US-PATENT-CLASS-427-126.6
N84-16341* #	c 27	NASA-CASE-ARC-11429-1-CU		US-PATENT-CLASS-55-DIG.30		US-PATENT-CLASS-427-296
		US-PATENT-APPL-SN-553339		US-PATENT-CLASS-55-105		US-PATENT-CLASS-427-306
N84-16452* #	c 33	NASA-CASE-LEW-13570-1		US-PATENT-CLASS-55-12		US-PATENT-CLASS-429-223
		US-PATENT-APPL-SN-251009		US-PATENT-CLASS-55-126		US-PATENT-CLASS-429-234
		US-PATENT-CLASS-315-3.5		US-PATENT-CLASS-55-131		US-PATENT-4,439,465
		US-PATENT-CLASS-315-3.6		US-PATENT-CLASS-55-138	N84-22744* #	NASA-CASE-ARC-11402-1
		US-PATENT-CLASS-315-39.3		US-PATENT-CLASS-55-139		US-PATENT-APPL-SN-366025
		US-PATENT-CLASS-333-162		US-PATENT-CLASS-55-145		US-PATENT-CLASS-260-465.5R
		US-PATENT-4,422,012		US-PATENT-CLASS-55-2		US-PATENT-CLASS-260-465.6
N84-16453* #	c 33	NASA-CASE-MFS-25430-1		US-PATENT-CLASS-55-270		US-PATENT-CLASS-528-362
		US-PATENT-APPL-SN-383083		US-PATENT-CLASS-55-283		US-PATENT-CLASS-528-401
		US-PATENT-CLASS-363-25		US-PATENT-CLASS-55-291		US-PATENT-CLASS-528-422

		US-PATENT-CLASS-528-423	US-PATENT-CLASS-62-264			US-PATENT-4,439,301
		US-PATENT-CLASS-544-215	US-PATENT-CLASS-62-467R			NASA-CASE-LEW-13107-2
		US-PATENT-CLASS-564-243	US-PATENT-4,423,605			US-PATENT-APPL-SN-444124
N84-22745* #	c 27	US-PATENT-4,434,106	NASA-CASE-MFS-25687-1	N84-22928* #	c 35	US-PATENT-CLASS-156-643
		NASA-CASE-ARC-11368-3	US-PATENT-APPL-SN-350474			US-PATENT-CLASS-156-644
		US-PATENT-APPL-SN-288267	US-PATENT-CLASS-324-262			US-PATENT-CLASS-156-668
		US-PATENT-APPL-SN-512795	US-PATENT-CLASS-73-620			US-PATENT-CLASS-204-192E
		US-PATENT-CLASS-428-370	US-PATENT-CLASS-73-633			US-PATENT-4,432,853
		US-PATENT-CLASS-428-408	US-PATENT-CLASS-74-58	N84-23113* #	c 54	NASA-CASE-MSC-20261-2
		US-PATENT-CLASS-428-902	US-PATENT-4,434,659			US-PATENT-APPL-SN-393581
		US-PATENT-CLASS-428-920	NASA-CASE-MFS-25405-1			US-PATENT-CLASS-2-161R
		US-PATENT-CLASS-525-417	US-PATENT-APPL-SN-274708			US-PATENT-CLASS-2-167
		US-PATENT-CLASS-526-262	US-PATENT-CLASS-356-347			US-PATENT-4,433,439
		US-PATENT-CLASS-528-228	US-PATENT-4,428,675	N84-23233* #	c 71	NASA-CASE-NPO-15689-1
		US-PATENT-CLASS-528-322	NASA-CASE-LEW-13598-1			US-PATENT-APPL-SN-358089
		US-PATENT-CLASS-548-415	US-PATENT-APPL-SN-425203			US-PATENT-CLASS-310-300
		US-PATENT-4,395,557	US-PATENT-CLASS-101-395			US-PATENT-CLASS-318-116
		US-PATENT-4,433,115	US-PATENT-CLASS-156-630			US-PATENT-CLASS-60-721
N84-22746* #	c 27	NASA-CASE-LAR-12723-2	US-PATENT-CLASS-156-654			US-PATENT-CLASS-73-505
		US-PATENT-APPL-SN-199768	US-PATENT-CLASS-156-905			US-PATENT-4,420,977
		US-PATENT-APPL-SN-447371	US-PATENT-CLASS-228-165	N84-23247* #	c 74	NASA-CASE-NPO-15345-1
		US-PATENT-CLASS-525-426	US-PATENT-4,437,923			US-PATENT-APPL-SN-276749
		US-PATENT-CLASS-528-183	NASA-CASE-NPO-15398-1			US-PATENT-CLASS-358-125
		US-PATENT-CLASS-528-220	US-PATENT-APPL-SN-259212			US-PATENT-CLASS-358-213
		US-PATENT-CLASS-528-345	US-PATENT-CLASS-356-216			US-PATENT-4,430,673
		US-PATENT-CLASS-528-348	US-PATENT-CLASS-356-234	N84-23248* #	c 74	NASA-CASE-GSC-12756-1
		US-PATENT-4,395,540	US-PATENT-4,431,306			US-PATENT-APPL-SN-378535
		US-PATENT-4,431,792	NASA-CASE-LAR-12967-1			US-PATENT-CLASS-350-172
N84-22747* #	c 27	NASA-CASE-LAR-12931-1	US-PATENT-APPL-SN-414107			US-PATENT-CLASS-350-173
		US-PATENT-APPL-SN-433598	US-PATENT-CLASS-310-317			US-PATENT-CLASS-350-443
		US-PATENT-CLASS-524-171	US-PATENT-CLASS-310-334			US-PATENT-4,444,464
		US-PATENT-CLASS-525-534	US-PATENT-CLASS-310-366	N84-24577* #	c 07	NASA-CASE-LEW-14035-1
		US-PATENT-CLASS-525-535	US-PATENT-4,446,396			US-PATENT-APPL-SN-136652
		US-PATENT-CLASS-525-536	NASA-CASE-LAR-12995-1			US-PATENT-CLASS-60-757
		US-PATENT-CLASS-528-25	US-PATENT-APPL-SN-444150			US-PATENT-4,414,816
		US-PATENT-CLASS-528-26	US-PATENT-CLASS-181-121	N84-25015* #	c 35	NASA-CASE-ARC-11510-1
		US-PATENT-4,431,761	US-PATENT-CLASS-367-189			US-PATENT-APPL-SN-602049
N84-22748* #	c 27	NASA-CASE-NPO-15640-1	US-PATENT-CLASS-73-589	N84-25016* #	c 35	NASA-CASE-GSC-12911-1
		US-PATENT-APPL-SN-465367	US-PATENT-CLASS-73-594			US-PATENT-APPL-SN-606426
		US-PATENT-CLASS-156-304.3	US-PATENT-4,445,378	N84-25037* #	c 36	NASA-CASE-NPO-16030-1
		US-PATENT-CLASS-156-304.6	NASA-CASE-ARC-11361-1			US-PATENT-APPL-SN-582494
		US-PATENT-CLASS-156-499	US-PATENT-APPL-SN-373771	N84-25063* #	c 37	NASA-CASE-LAR-13169-1
		US-PATENT-CLASS-156-81	US-PATENT-CLASS-340-870.13			US-PATENT-APPL-SN-606431
		US-PATENT-CLASS-156-89	US-PATENT-CLASS-73-147	N84-25164* #	c 44	NASA-CASE-NPO-16236-1
		US-PATENT-4,420,352	US-PATENT-CLASS-73-721			US-PATENT-APPL-SN-582495
N84-22749* #	c 27	NASA-CASE-LAR-12980-1	US-PATENT-CLASS-73-756	N84-25306* #	c 60	NASA-CASE-NPO-16116-1
		US-PATENT-APPL-SN-469866	US-PATENT-4,442,716			US-PATENT-APPL-SN-587749
		US-PATENT-CLASS-528-125	NASA-CASE-NPO-15516-1	N84-25450* #	c 74	NASA-CASE-GSC-12897-1
		US-PATENT-CLASS-528-128	US-PATENT-APPL-SN-384126			US-PATENT-APPL-SN-606432
		US-PATENT-CLASS-528-172	US-PATENT-CLASS-372-20	N84-27713* #	c 04	NASA-CASE-NPO-15264-1
		US-PATENT-CLASS-528-185	US-PATENT-CLASS-372-28			US-PATENT-APPL-SN-241154
		US-PATENT-4,444,979	US-PATENT-CLASS-372-32			US-PATENT-CLASS-343-105R
N84-22750* #	c 27	NASA-CASE-ARC-11370-1	US-PATENT-4,434,490			US-PATENT-CLASS-364-452
		US-PATENT-APPL-SN-491125	NASA-CASE-LEW-13526-1			US-PATENT-4,396,918
		US-PATENT-CLASS-525-389	US-PATENT-APPL-SN-358398	N84-27733* #	c 06	NASA-CASE-LAR-12630-1
		US-PATENT-CLASS-528-394	US-PATENT-CLASS-118-50.1			US-PATENT-APPL-SN-383384
		US-PATENT-CLASS-528-399	US-PATENT-CLASS-118-624			US-PATENT-CLASS-340-705
		US-PATENT-CLASS-528-6	US-PATENT-CLASS-118-641			US-PATENT-CLASS-340-971
		US-PATENT-CLASS-528-7	US-PATENT-CLASS-427-399			US-PATENT-CLASS-340-975
		US-PATENT-CLASS-568-4	US-PATENT-CLASS-427-53.1			US-PATENT-CLASS-340-978
		US-PATENT-CLASS-568-5	US-PATENT-4,434,189			US-PATENT-CLASS-340-980
		US-PATENT-4,444,972	NASA-CASE-LEW-13269-2			US-PATENT-CLASS-73-178R
N84-22820* #	c 32	NASA-CASE-MSC-18675-1	US-PATENT-APPL-SN-242795			US-PATENT-4,453,163
		US-PATENT-APPL-SN-266687	US-PATENT-APPL-SN-431448	N84-27749* #	c 09	NASA-CASE-MRS-25791-1
		US-PATENT-CLASS-343-17.5	US-PATENT-CLASS-415-174			US-PATENT-APPL-SN-409678
		US-PATENT-CLASS-343-9R	US-PATENT-CLASS-427-34			US-PATENT-CLASS-417-159
		US-PATENT-4,439,766	US-PATENT-CLASS-427-423			US-PATENT-CLASS-73-117.1
N84-22884* #	c 33	NASA-CASE-MFS-256704-1	US-PATENT-CLASS-427-53.1			US-PATENT-4,454,753
		US-PATENT-APPL-SN-409679	US-PATENT-CLASS-428-155	N84-27784* #	c 16	NASA-CASE-MFS-25853-1
		US-PATENT-CLASS-204-192EC	US-PATENT-4,377,371			US-PATENT-APPL-SN-418138
		US-PATENT-4,437,961	US-PATENT-4,430,360			US-PATENT-CLASS-244-158R
N84-22885* #	c 33	NASA-CASE-MFS-25535-2	NASA-CASE-LEW-12590-1			US-PATENT-CLASS-244-172
		US-PATENT-APPL-SN-476244	US-PATENT-APPL-SN-229693			US-PATENT-CLASS-244-63
		US-PATENT-CLASS-318-438	US-PATENT-CLASS-60-730			US-PATENT-4,452,412
		US-PATENT-CLASS-318-729	US-PATENT-CLASS-60-736	N84-27787* #	c 18	NASA-CASE-MFS-25878-1
		US-PATENT-CLASS-318-798	US-PATENT-4,429,537			US-PATENT-APPL-SN-431886
		US-PATENT-CLASS-318-805	NASA-CASE-NPO-15656-1			US-PATENT-CLASS-244-172
		US-PATENT-CLASS-318-810	US-PATENT-APPL-SN-569370			US-PATENT-CLASS-244-2
		US-PATENT-4,433,276	NASA-CASE-NPO-15496-1			US-PATENT-CLASS-244-63
N84-22886* #	c 33	NASA-CASE-MFS-25323-1	US-PATENT-APPL-SN-379602			US-PATENT-4,451,017
		US-PATENT-APPL-SN-297524	US-PATENT-CLASS-290-55	N84-27829* #	c 24	NASA-CASE-LEW-13758-1
		US-PATENT-CLASS-318-729	US-PATENT-CLASS-415-DIG.8			US-PATENT-APPL-SN-418139
		US-PATENT-CLASS-318-812	US-PATENT-CLASS-415-2R			US-PATENT-CLASS-73-833
		US-PATENT-4,439,718	US-PATENT-CLASS-60-641.12			US-PATENT-CLASS-73-856
N84-22887* #	c 33	NASA-CASE-GSC-12567-1	US-PATENT-CLASS-60-698			US-PATENT-4,452,088
		US-PATENT-APPL-SN-373839	US-PATENT-CLASS-60-716	N84-27855* #	c 26	NASA-CASE-LEW-13639-2
		US-PATENT-CLASS-330-109	US-PATENT-4,433,544			US-PATENT-APPL-SN-456460
		US-PATENT-CLASS-330-277	NASA-CASE-LAR-12958-1			US-PATENT-CLASS-427-34
		US-PATENT-CLASS-330-294	US-PATENT-APPL-SN-433196			US-PATENT-CLASS-427-405
		US-PATENT-4,437,069	US-PATENT-CLASS-104-DIG.4			US-PATENT-CLASS-427-419.2
N84-22903* #	c 34	NASA-CASE-NPO-15465-1	US-PATENT-CLASS-204-DIG.3			US-PATENT-CLASS-428-632
		US-PATENT-APPL-SN-284289	US-PATENT-CLASS-204-129			US-PATENT-4,451,496
		US-PATENT-CLASS-126-417	US-PATENT-CLASS-204-278	N84-27884* #	c 27	NASA-CASE-ARC-11405-1
		US-PATENT-CLASS-165-DIG.6	US-PATENT-CLASS-204-280			US-PATENT-APPL-SN-415880
		US-PATENT-CLASS-165-135	US-PATENT-CLASS-423-303			US-PATENT-CLASS-528-271
		US-PATENT-CLASS-62-DIG.1	US-PATENT-CLASS-429-111			US-PATENT-CLASS-528-310

		US-PATENT-CLASS-528-327	N84-28083* #	c 37	NASA-CASE-GSC-12762-1	US-PATENT-APPL-SN-264378
		US-PATENT-CLASS-528-331			US-PATENT-APPL-SN-364094	US-PATENT-APPL-SN-364072
		US-PATENT-CLASS-528-362			US-PATENT-CLASS-269-224	US-PATENT-CLASS-313-106
		US-PATENT-CLASS-528-362			US-PATENT-CLASS-269-242	US-PATENT-CLASS-313-107
N84-27885* #	c 27	NASA-CASE-LEW-13770-1			US-PATENT-CLASS-269-244	US-PATENT-CLASS-313-351
		US-PATENT-APPL-SN-404809			US-PATENT-CLASS-269-252	US-PATENT-CLASS-315-538
		US-PATENT-CLASS-526-262			US-PATENT-CLASS-269-285	US-PATENT-CLASS-315-538
		US-PATENT-CLASS-528-322			US-PATENT-4,448,408	US-PATENT-4,349,424
		US-PATENT-CLASS-528-342			US-PATENT-4,448,408	US-PATENT-4,417,175
		US-PATENT-4,455,418	N84-28084* #	c 37	NASA-CASE-LAR-12644-1	N84-28568* #
N84-27886* #	c 27	NASA-CASE-LAR-12862-1			US-PATENT-APPL-SN-387728	c 71
		US-PATENT-APPL-SN-435511			US-PATENT-CLASS-74-753	NASA-CASE-MFS-25828-1
		US-PATENT-CLASS-220-306			US-PATENT-CLASS-74-758	US-PATENT-APPL-SN-493866
		US-PATENT-CLASS-244-117A			US-PATENT-CLASS-74-812	US-PATENT-CLASS-137-838
		US-PATENT-CLASS-244-158A			US-PATENT-4,446,757	US-PATENT-CLASS-366-106
		US-PATENT-4,456,208	N84-28085* #	c 37	NASA-CASE-LAR-12786-1	US-PATENT-CLASS-425-6
N84-27951* #	c 32	NASA-CASE-NPO-15024-1			US-PATENT-APPL-SN-309292	US-PATENT-CLASS-65-142
		US-PATENT-APPL-SN-284287			US-PATENT-CLASS-30-180	US-PATENT-CLASS-65-160
		US-PATENT-CLASS-343-17.7			US-PATENT-CLASS-30-188	US-PATENT-CLASS-65-21.3
		US-PATENT-CLASS-434-2			US-PATENT-CLASS-30-228	US-PATENT-CLASS-65-21.4
		US-PATENT-4,450,447			US-PATENT-CLASS-30-249	US-PATENT-4,447,251
N84-27952* #	c 32	NASA-CASE-MSC-16170-2			US-PATENT-CLASS-30-272R	N84-28575* #
		US-PATENT-APPL-SN-147695			US-PATENT-4,458,418	c 72
		US-PATENT-APPL-SN-737975	N84-28203* #	c 44	NASA-CASE-NPO-15388-1	NASA-CASE-MFS-25641-1
		US-PATENT-CLASS-329-124			US-PATENT-APPL-SN-284286	US-PATENT-APPL-SN-342857
		US-PATENT-CLASS-375-120			US-PATENT-CLASS-126-419	US-PATENT-CLASS-250-305
		US-PATENT-CLASS-375-77			US-PATENT-CLASS-126-438	US-PATENT-CLASS-324-457
		US-PATENT-CLASS-375-81			US-PATENT-CLASS-126-451	US-PATENT-CLASS-324-71.3
		US-PATENT-CLASS-455-202			US-PATENT-4,433,672	US-PATENT-CLASS-324-72.5
		US-PATENT-CLASS-455-208	N84-28204* #	c 44	NASA-CASE-NPO-15662-1	US-PATENT-4,455,532
		US-PATENT-CLASS-455-260			US-PATENT-APPL-SN-392103	N84-28590* #
		US-PATENT-CLASS-455-265			US-PATENT-CLASS-126-418	c 74
		US-PATENT-4,455,680			US-PATENT-CLASS-126-438	NASA-CASE-NPO-15805-1
N84-27974* #	c 33	NASA-CASE-LEW-13736-1			US-PATENT-CLASS-126-440	US-PATENT-APPL-SN-296137
		US-PATENT-APPL-SN-434084			US-PATENT-4,449,514	US-PATENT-CLASS-250-332
		US-PATENT-CLASS-315-3.6	N84-28205* #	c 44	NASA-CASE-LEW-13653-1	US-PATENT-CLASS-250-338
		US-PATENT-CLASS-315-39.3			US-PATENT-APPL-SN-352821	US-PATENT-4,443,701
		US-PATENT-CLASS-331-82			US-PATENT-CLASS-204-290	N84-28732* #
		US-PATENT-CLASS-333-162			US-PATENT-CLASS-29-623.5	c 02
		US-PATENT-4,459,562			US-PATENT-CLASS-29-825	NASA-CASE-LAR-12396-1
N84-27975* #	c 33	NASA-CASE-MFS-25854-1			US-PATENT-CLASS-427-113	US-PATENT-APPL-SN-017889
		US-PATENT-APPL-SN-450166			US-PATENT-CLASS-427-115	US-PATENT-CLASS-244-35R
		US-PATENT-CLASS-318-729			US-PATENT-CLASS-427-125	US-PATENT-CLASS-416-223R
		US-PATENT-CLASS-318-809			US-PATENT-CLASS-427-226	US-PATENT-CLASS-416-242
		US-PATENT-CLASS-323-300			US-PATENT-CLASS-427-372.2	US-PATENT-4,459,083
		US-PATENT-4,459,528			US-PATENT-CLASS-427-379	N84-28967* #
N84-28015* #	c 35	NASA-CASE-WLP-10055-1			US-PATENT-CLASS-427-380	c 27
		US-PATENT-APPL-SN-352827			US-PATENT-CLASS-427-443	NASA-CASE-LAR-13316-1
		US-PATENT-CLASS-73-862.65			US-PATENT-CLASS-429-44	US-PATENT-APPL-SN-613139
		US-PATENT-4,425,808			US-PATENT-4,454,649	N84-29017* #
N84-28016* #	c 35	NASA-CASE-NPO-15423-1			NASA-CASE-LAR-12971-1	c 28
		US-PATENT-APPL-SN-361216	N84-28292* #	c 47	US-PATENT-APPL-SN-444149	NASA-CASE-KSC-11304-1
		US-PATENT-CLASS-250-296			US-PATENT-CLASS-250-356.1	US-PATENT-APPL-SN-603373
		US-PATENT-4,435,642			US-PATENT-CLASS-73-189	N84-29084* #
N84-28017* #	c 35	NASA-CASE-NPO-15706-1			US-PATENT-CLASS-73-861.71	c 33
		US-PATENT-APPL-SN-350475			US-PATENT-4,449,400	NASA-CASE-LEW-13822-1
		US-PATENT-CLASS-310-154	N84-28361* #	c 51	NASA-CASE-ARC-11359-1	US-PATENT-APPL-SN-625077
		US-PATENT-CLASS-310-171			US-PATENT-APPL-SN-392092	N84-32383* #
		US-PATENT-CLASS-310-68B			US-PATENT-CLASS-264-41	c 06
		US-PATENT-CLASS-335-222			US-PATENT-CLASS-521-141	NASA-CASE-LAR-12518-1
		US-PATENT-4,443,724			US-PATENT-CLASS-521-142	US-PATENT-APPL-SN-578388
N84-28018* #	c 35	NASA-CASE-NFS-25754-1			US-PATENT-CLASS-521-149	N84-32398* #
		US-PATENT-APPL-SN-359626			US-PATENT-4,456,708	c 09
		US-PATENT-CLASS-33-169F	N84-28388* #	c 52	NASA-CASE-LAR-12650-1	NAS 1.71:MFS-25962-1
		US-PATENT-CLASS-62-128			US-PATENT-APPL-SN-264381	NASA-CASE-MFS-25962-1
		US-PATENT-CLASS-73-150R			US-PATENT-CLASS-128-325	US-PATENT-APPL-SN-633180
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-128-346	N84-32424* #
		US-PATENT-CLASS-73-32R			US-PATENT-CLASS-24-560	c 18
		US-PATENT-CLASS-73-864.41			US-PATENT-4,416,266	NAS 1.71:MSC-20635-1
		US-PATENT-4,398,412	N84-28389* #	c 52	NASA-CASE-LAR-12650-2	NASA-CASE-MSC-20635-1
N84-28019* #	c 35	NASA-CASE-LAR-12743-1			US-PATENT-APPL-SN-264381	US-PATENT-APPL-SN-588039
		US-PATENT-APPL-SN-372279			US-PATENT-APPL-SN-465363	N84-32425* #
		US-PATENT-CLASS-374-1			US-PATENT-CLASS-156-191	c 20
		US-PATENT-CLASS-73-1B			US-PATENT-CLASS-156-285	NAS 1.71:LEW-14037-1
		US-PATENT-4,426,874			US-PATENT-CLASS-156-289	NASA-CASE-LEW-14037-1
N84-28065* #	c 36	NASA-CASE-GSC-12592-1			US-PATENT-CLASS-156-382	US-PATENT-APPL-SN-636463
		US-PATENT-APPL-SN-199766			US-PATENT-CLASS-29-423	N84-32447* #
		US-PATENT-CLASS-372-103			US-PATENT-CLASS-29-451	c 25
		US-PATENT-CLASS-372-4			US-PATENT-4,447,943	NAS 1.71:ARC-13257-1
		US-PATENT-CLASS-372-71	N84-28484* #	c 54	NASA-CASE-MSC-20261-1	NASA-CASE-LAR-13257-1
		US-PATENT-CLASS-372-93			US-PATENT-APPL-SN-393586	US-PATENT-APPL-SN-633178
		US-PATENT-CLASS-372-95			US-PATENT-CLASS-2-161R	N84-32532* #
		US-PATENT-4,446,556			US-PATENT-CLASS-2-164	c 27
N84-28081* #	c 37	NASA-CASE-NPO-14597-2			US-PATENT-CLASS-2-167	NASA-CASE-LAR-13270-1
		US-PATENT-APPL-SN-037194			US-PATENT-4,454,611	NASA-CASE-LAR-13270-1
		US-PATENT-APPL-SN-401288	N84-28491* #	c 60	NASA-CASE-GSC-12447-2	US-PATENT-APPL-SN-569536
		US-PATENT-CLASS-417-328			US-PATENT-APPL-SN-128230	N84-32620* #
		US-PATENT-CLASS-417-392			US-PATENT-APPL-SN-501060	c 32
		US-PATENT-CLASS-417-462			US-PATENT-CLASS-364-900	NAS 1.71:NPO-16256-1
		US-PATENT-4,449,894			US-PATENT-4,435,781	NASA-CASE-NPO-16256-1
N84-28082* #	c 37	NASA-CASE-GSC-12550-1			NASA-CASE-MSC-20258-1	US-PATENT-APPL-SN-638586
		US-PATENT-APPL-SN-238888			US-PATENT-APPL-SN-235472	N84-32748* #
		US-PATENT-CLASS-73-468			US-PATENT-CLASS-340-825.21	c 34
		US-PATENT-CLASS-74-5.5			US-PATENT-CLASS-340-825.5	NASA-CASE-MSC-20812-1
		US-PATENT-CLASS-74-573R			US-PATENT-CLASS-364-900	US-PATENT-APPL-SN-616002
		US-PATENT-4,458,554			US-PATENT-4,446,459	N84-32912* #
			N84-28565* #	c 70	NASA-CASE-LEW-12919-2	c 44
						NAS 1.71:NPO-16392-1
						NASA-CASE-NPO-16392-1
						US-PATENT-APPL-SN-633363
						N84-32913* #
						c 44
						NAS 1.71:MFS-25978-1
						NASA-CASE-MFS-25978-1
						US-PATENT-APPL-SN-636459
						N84-33021* #
						c 54
						NAS 1.71:ARC-11534-1
						NASA-CASE-ARC-11534-1
						US-PATENT-APPL-SN-642602
						N84-33179* #
						c 74
						NAS 1.71:NPO-16294-1
						NASA-CASE-NPO-16294-1
						US-PATENT-APPL-SN-638585
						N84-33211* #
						c 76
						NAS 1.71:NPO-16045-1
						NASA-CASE-NPO-16045-1
						US-PATENT-APPL-SN-641146
						N84-33394* #
						c 03
						NAS 1.71:ARC-11423-1
						NASA-CASE-ARC-11423-1
						US-PATENT-APPL-SN-452466
						US-PATENT-CLASS-297-DIG.5
						US-PATENT-CLASS-428-246
						US-PATENT-CLASS-428-280
						US-PATENT-CLASS-428-287
						US-PATENT-CLASS-428-304.4
						US-PATENT-CLASS-428-319.1
						US-PATENT-CLASS-428-423.5
						US-PATENT-CLASS-428-71
						US-PATENT-CLASS-428-76
						US-PATENT-CLASS-428-921
						US-PATENT-CLASS-5-459
						US-PATENT-4,463,465

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N85-20294* #	c 35	NAS 1.71:GSC-12789-1 NASA-CASE-GSC-12789-1 US-PATENT-APPL-SN-409680 US-PATENT-CLASS-177-147 US-PATENT-CLASS-177-260 US-PATENT-CLASS-73-862.54 US-PATENT-4,479,560	NASA-CASE-LEW-13324-2 US-PATENT-APPL-SN-375784 US-PATENT-APPL-SN-523297 US-PATENT-CLASS-428-633 US-PATENT-CLASS-428-656 US-PATENT-CLASS-428-678 US-PATENT-CLASS-428-679 US-PATENT-CLASS-428-680 US-PATENT-CLASS-428-681 US-PATENT-CLASS-428-682 US-PATENT-CLASS-428-683 US-PATENT-CLASS-428-684 US-PATENT-4,485,151	US-PATENT-CLASS-528-229 US-PATENT-CLASS-528-322 US-PATENT-CLASS-528-342 US-PATENT-4,497,939
N85-20295* #	c 35	NAS 1.71:LAR-13065-1 NASA-CASE-LAR-13065-1 US-PATENT-APPL-SN-484745 US-PATENT-CLASS-73-187 US-PATENT-4,485,671	NAS 1.71:LEW-13837-2 NASA-CASE-LEW-13837-2 US-PATENT-APPL-SN-495381 US-PATENT-APPL-SN-591089 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192N US-PATENT-CLASS-204-192R US-PATENT-CLASS-423-445 US-PATENT-CLASS-423-446 US-PATENT-CLASS-423-449 US-PATENT-CLASS-427-39 US-PATENT-4,437,962 US-PATENT-4,495,044	N85-21352* # c 27 NAS 1.71:LEW-13770-5 NASA-CASE-LEW-13770-5 US-PATENT-APPL-SN-516217 US-PATENT-APPL-SN-561435 US-PATENT-CLASS-526-262 US-PATENT-CLASS-528-229 US-PATENT-CLASS-528-322 US-PATENT-CLASS-528-342 US-PATENT-4,497,940
N85-20297* #	c 35	NAS 1.71:LAR-13342-1 NASA-CASE-LAR-13342-1 US-PATENT-APPL-SN-684186	N85-21267* # c 24 NAS 1.71:LEW-13837-2 NASA-CASE-LEW-13837-2 US-PATENT-APPL-SN-495381 US-PATENT-APPL-SN-591089 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192N US-PATENT-CLASS-204-192R US-PATENT-CLASS-423-445 US-PATENT-CLASS-423-446 US-PATENT-CLASS-423-449 US-PATENT-CLASS-427-39 US-PATENT-4,437,962 US-PATENT-4,495,044	N85-21360* # c 27 NAS 1.71:LAR-13351-1 NASA-CASE-LAR-13351-1 US-PATENT-APPL-SN-643589
N85-20298* #	c 35	NAS 1.71:MFS-25825-1 NASA-CASE-MFS-25825-1 US-PATENT-APPL-SN-657309	N85-21362* # c 27 NAS 1.71:ARC-11512-2 NASA-CASE-ARC-11512-2 US-PATENT-APPL-SN-641153	N85-21364* # c 27 NAS 1.71:ARC-11533-1 NASA-CASE-ARC-11533-1 US-PATENT-APPL-SN-641147
N85-20299* #	c 35	NAS 1.71:MFS-25981-1 NASA-CASE-MFS-25981-1 US-PATENT-APPL-SN-657310	N85-21404* # c 31 NAS 1.71:GSC-12799-1 NASA-CASE-GSC-12799-1 US-PATENT-APPL-SN-461724 US-PATENT-CLASS-31-35 US-PATENT-CLASS-310-22 US-PATENT-CLASS-417-417 US-PATENT-CLASS-417-488 US-PATENT-CLASS-62-6 US-PATENT-CLASS-92-98R US-PATENT-4,500,265	N85-21427* # c 32 NAS 1.71:MSC-18578-1 NASA-CASE-MSC-18578-1 US-PATENT-APPL-SN-367132 US-PATENT-CLASS-358-161 US-PATENT-CLASS-358-174 US-PATENT-CLASS-358-217 US-PATENT-CLASS-358-219 US-PATENT-4,495,520
N85-20300* #	c 35	NAS 1.71:MFS-28008-1 NASA-CASE-MFS-28008-1 US-PATENT-APPL-SN-684194	N85-21279* # c 25 NAS 1.71:GSC-12808-1 NASA-CASE-GSC-12808-1 US-PATENT-APPL-SN-462497 US-PATENT-CLASS-376-159 US-PATENT-4,483,817	N85-21428* # c 32 NAS 1.71:NPO-15433-1 NASA-CASE-NPO-15433-1 US-PATENT-APPL-SN-250585 US-PATENT-CLASS-364-200 US-PATENT-4,493,021
N85-20301* #	c 35	NAS 1.71:MSC-20653-1 NASA-CASE-MSC-20653-1 US-PATENT-APPL-SN-659474	N85-21280* # c 25 NAS 1.71:MFS-25721-1 NASA-CASE-MFS-25721-1 US-PATENT-APPL-SN-492964 US-PATENT-CLASS-556-410 US-PATENT-4,474,975	N85-21441* # c 32 NAS 1.71:LAR-13310-1 NASA-CASE-LAR-13310-1 US-PATENT-APPL-SN-709257
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N86-20124* #	c 74	NASA-CASE-MFS-25942-1 US-PATENT-APPL-SN-571613 US-PATENT-CLASS-378-43 US-PATENT-CLASS-378-85 US-PATENT-4,562,583	N86-20647* #	c 32	NASA-CASE-MFS-25750-1 US-PATENT-APPL-SN-530-185 US-PATENT-CLASS-250-225 US-PATENT-CLASS-350-354 US-PATENT-CLASS-358-168 US-PATENT-4,546,248	N86-20780* #	c 36	NAS 1.71:NPO-16542-1-CU NASA-CASE-NPO-16542-1-CU US-PATENT-APPL-SN-781812
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		US-PATENT-CLASS-65-11.1				
		US-PATENT-CLASS-65-12				
		US-PATENT-CLASS-65-2				

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The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration.

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the *Federal Register* after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546.

FOR FURTHER INFORMATION CONTACT: Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows

Subpart 2—Licensing of NASA Inventions

- Sec.
- 1245.200 Scope of subpart.
 - 1245.201 Policy and objective.
 - 1245.202 Definitions.
 - 1245.203 Authority to grant licenses.

Restrictions and Conditions

- 1245.204 All licenses granted under this subpart.

Types of Licenses

- 1245.205 Nonexclusive licenses.
- 1245.206 Exclusive and partially exclusive licenses.

Procedures

- 1245.207 Application for a license.
- 1245.208 Processing applications.
- 1245.209 Notice to Attorney General.

- 1245.210 Modification and termination of licenses.

- 1245.211 Appeals.

- 1245.212 Protection and administration of inventions.

- 1245.213 Transfer of custody.

- 1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208, 94 Stat. 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions, and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title, or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in

13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

PATENT LICENSING REGULATIONS

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of

patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the Federal Register; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license,

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identifying the invention and prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's

business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the

Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or

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1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator

or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and

financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

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